

Medicare Hospital

INFORMATION

Report

EMBARGOED FOR RELEASE:
WEDNESDAY, JUNE 10, 1992
6 P.M. EDT



1 ● 2

Iowa

RA951
A2
M43
1988-1990
v.17

MEDICARE HOSPITAL INFORMATION

1988 • 1989 • 1990

~~~~~

Volume 17

~~~~~

IOWA

~~~~~

LOUIS W. SULLIVAN, M.D.

*Secretary*

U.S. Department of Health and Human Services

WILLIAM TOBY

*Acting Administrator*

Health Care Financing Administration

# STATES BY VOLUME

| VOL | STATE                             | VOL | STATE                         |
|-----|-----------------------------------|-----|-------------------------------|
| 1   | ALABAMA                           | 28  | MONTANA                       |
| 2   | ALASKA                            | 29  | NEBRASKA                      |
| 3   | ARIZONA                           | 30  | NEVADA                        |
| 4   | ARKANSAS                          | 31  | NEW HAMPSHIRE                 |
| 5   | CALIFORNIA (Part 1)               | 32  | NEW JERSEY                    |
| 6   | CALIFORNIA (Part 2)               | 33  | NEW MEXICO                    |
| 7   | COLORADO                          | 34  | NEW YORK                      |
| 8   | CONNECTICUT                       | 35  | NORTH CAROLINA                |
| 9   | DELAWARE                          | 36  | NORTH DAKOTA                  |
| 10  | DISTRICT OF COLUMBIA              | 37  | OHIO                          |
| 11  | FLORIDA                           | 38  | OKLAHOMA                      |
| 12  | GEORGIA                           | 39  | OREGON                        |
| 13  | HAWAII,<br>AMERICAN SAMOA<br>GUAM | 40  | PENNSYLVANIA                  |
| 14  | IDAHO                             | 41  | PUERTO RICO<br>VIRGIN ISLANDS |
| 15  | ILLINOIS                          | 42  | RHODE ISLAND                  |
| 16  | INDIANA                           | 43  | SOUTH CAROLINA                |
| 17  | IOWA                              | 44  | SOUTH DAKOTA                  |
| 18  | KANSAS                            | 45  | TENNESSEE                     |
| 19  | KENTUCKY                          | 46  | TEXAS (Part 1)                |
| 20  | LOUISIANA                         | 47  | TEXAS (Part 2)                |
| 21  | MAINE                             | 48  | UTAH                          |
| 22  | MARYLAND                          | 49  | VERMONT                       |
| 23  | MASSACHUSETTS                     | 50  | VIRGINIA                      |
| 24  | MICHIGAN                          | 51  | WASHINGTON                    |
| 25  | MINNESOTA                         | 52  | WEST VIRGINIA                 |
| 26  | MISSISSIPPI                       | 53  | WISCONSIN                     |
| 27  | MISSOURI                          | 54  | WYOMING                       |
|     |                                   | 55  | TECHNICAL SUPPLEMENT          |



# FOREWORD

The mission of the Health Care Financing Administration (HCFA) is to promote the timely delivery of appropriate, quality health care to the nation's aged, disabled, and poor. The agency must also ensure that beneficiaries are aware of the services for which they are eligible, that those services are accessible, and that agency policies and actions promote efficiency and quality within the total health care delivery system.

To that end, the annual release of the Medicare Hospital Information report is a key element in our continuing efforts to improve the effectiveness of medical practice and the quality of care provided to Medicare beneficiaries. It is also an important step in helping beneficiaries make more informed health care decisions.

The information in this release is not intended as a direct measure of quality of care. It is best used as a "screening tool"—that is, to identify potential problems for further review and, in consultation with medical staff, to evaluate a hospital's strengths and weaknesses. Thus, we believe that consumers can use this information to ask questions of their physicians, rather than reach judgments about the quality of care in a particular hospital. We also expect this information to be used by hospital administrators, physicians, peer review organizations, State survey and certification agencies, and researchers.

This publication presents information to answer the question "What is the actual mortality rate within a certain period of time for each hospital compared to the rate that would have been predicted, given what we know about the characteristics of the patients admitted?" Our basic approach to analyzing hospital mortality information has remained unchanged for the past five years; however, since the last publication of mortality information in May 1991, we have made some significant changes both in our methodology and in the way we display the results of our analysis. The four principal changes in the 1992 report are:

- A graphic presentation of the predicted and observed mortality rates for most hospitals for "All Causes" for Federal fiscal years 1988-1990 at 30, 90, and 180 days;
- The addition of information on certain variables that we use in computing the predicted mortality rates for each hospital;
- The addition of information on the geographic origin of each hospital's patients; and

- A comparison of the average length of stay in each hospital with the average for the State and Nation.

These refinements should make this information an even more valuable educational tool to help improve the quality of care in hospitals. The changes were reviewed by a panel of outside experts. The methodology used to calculate the observed mortality rate, the predicted mortality rate, and the standard deviation are briefly described in the Technical Information section of the Introduction to this volume and in more detail in the Technical Supplement (Volume 55).

We acknowledge the assistance we have received from the American Hospital Association—not only for providing the information detailing selected hospital characteristics, but also for alerting its members to the importance of this information. We are also grateful to the personnel in each hospital who took the time to review the data thoroughly and to provide us with comments and suggestions. As before, we have published individual hospitals' comments in their respective State volumes. Over the years, these communications have helped to improve and refine the information included in this publication.

HCFA is committed to improving the Medicare Hospital Information report. To that end, we are continuing to work with representatives of hospital, consumer, employer and other organizations to make this annual report as useful as possible for all consumers.

# TABLE OF CONTENTS

|                                            |    |
|--------------------------------------------|----|
| Introduction.....                          | ix |
| ADAIR COUNTY MEMORIAL HOSPITAL.....        | 2  |
| ALLEN MEMORIAL HOSPITAL .....              | 4  |
| ANAMOSA COMMUNITY HOSPITAL.....            | 6  |
| AUDUBON COUNTY MEMORIAL HOSPITAL .....     | 8  |
| BAUM HARMON MEMORIAL HOSPITAL .....        | 10 |
| BELMOND COMMUNITY HOSPITAL.....            | 12 |
| BOONE COUNTY HOSPITAL .....                | 14 |
| BROADLAWNS MEDICAL CENTER.....             | 16 |
| BUENA VISTA COUNTY HOSPITAL.....           | 18 |
| BURGESS MEMORIAL HOSPITAL.....             | 20 |
| BURLINGTON MEDICAL CENTER.....             | 22 |
| CASS COUNTY MEMORIAL HOSPITAL .....        | 24 |
| CENTRAL COMMUNITY HOSPITAL.....            | 26 |
| CHARTER COMMUNITY HOSPITAL .....           | 28 |
| CLARINDA MUNICIPAL HOSPITAL.....           | 30 |
| CLARKE COUNTY PUBLIC HOSPITAL.....         | 32 |
| COMMUNITY HOSPITAL AND HEALTH CENTER ..... | 34 |
| COMMUNITY MEMORIAL HOSPITAL.....           | 36 |
| COMMUNITY MEMORIAL HOSPITAL.....           | 38 |
| COMMUNITY MEMORIAL HOSPITAL.....           | 40 |
| COMMUNITY MEMORIAL HOSPITAL.....           | 42 |
| COMMUNITY MEMORIAL HOSPITAL.....           | 44 |
| COVENANT MEDICAL CENTER .....              | 46 |
| CRAWFORD COUNTY MEMORIAL HOSPITAL .....    | 48 |
| DALLAS COUNTY HOSPITAL.....                | 50 |
| DAVENPORT OSTEOPATHIC HOSPITAL.....        | 52 |
| DAVIS COUNTY HOSPITAL .....                | 54 |
| DECATUR COUNTY HOSPITAL .....              | 56 |
| DELAWARE COUNTY MEMORIAL HOSPITAL.....     | 58 |
| DES MOINES GENERAL HOSPITAL .....          | 60 |
| DEWITT COMMUNITY HOSPITAL .....            | 62 |
| DICKINSON COUNTY MEMORIAL HOSPITAL .....   | 64 |
| ELDORA COMMUNITY HOSPITAL.....             | 66 |
| ELLSWORTH MUNICIPAL HOSPITAL .....         | 68 |
| FINLEY HOSPITAL.....                       | 70 |
| FLOYD COUNTY MEMORIAL HOSPITAL .....       | 72 |
| FLOYD VALLEY HOSPITAL.....                 | 74 |
| FOREST CITY COMMUNITY HOSPITAL.....        | 76 |
| FRANKLIN GENERAL HOSPITAL .....            | 78 |
| FT MADISON COMMUNITY HOSPITAL .....        | 80 |
| GRAPE COMMUNITY HOSPITAL .....             | 82 |



|                                             |     |
|---------------------------------------------|-----|
| GREATER COMMUNITY HOSPITAL.....             | 84  |
| GREENE COUNTY MEDICAL CENTER .....          | 86  |
| GRINNELL GENERAL HOSPITAL.....              | 88  |
| GRUNDY COUNTY MEMORIAL HOSPITAL.....        | 90  |
| GUTHRIE COUNTY HOSPITAL.....                | 92  |
| GUTTENBERG MUNICIPAL HOSPITAL.....          | 94  |
| HAMILTON COUNTY PUBLIC HOSPITAL .....       | 96  |
| HANCOCK COUNTY MEMORIAL HOSPITAL .....      | 98  |
| HAWARDEN COMMUNITY HOSPITAL.....            | 100 |
| HEGG MEMORIAL HEALTH CENTER.....            | 102 |
| HENRY COUNTY HEALTH CENTER .....            | 104 |
| HOLY FAMILY HOSPITAL .....                  | 106 |
| HORN MEMORIAL HOSPITAL .....                | 108 |
| HOWARD COUNTY HOSPITAL .....                | 110 |
| HUMBOLDT COUNTY MEMORIAL HOSPITAL .....     | 112 |
| IOWA LUTHERAN HOSPITAL.....                 | 114 |
| IOWA METHODIST MEDICAL CENTER.....          | 116 |
| JACKSON COUNTY PUBLIC HOSPITAL .....        | 118 |
| JEFFERSON COUNTY HOSPITAL.....              | 120 |
| JENNIE EDMUNDSON HOSPITAL .....             | 122 |
| JOHN MCDONALD HOSPITAL .....                | 124 |
| KEOKUK AREA HOSPITAL.....                   | 126 |
| KEOKUK COUNTY HOSPITAL .....                | 128 |
| KNOXVILLE AREA COMMUNITY HOSPITAL.....      | 130 |
| KOSSUTH COUNTY HOSPITAL.....                | 132 |
| LORING HOSPITAL.....                        | 134 |
| LUCAS COUNTY MEMORIAL HOSPITAL .....        | 136 |
| MADISON COUNTY MEMORIAL HOSPITAL .....      | 138 |
| MAHASKA COUNTY HOSPITAL .....               | 140 |
| MANNING GENERAL HOSPITAL .....              | 142 |
| MARENGO MEMORIAL HOSPITAL .....             | 144 |
| MARIAN HEALTH CENTER.....                   | 146 |
| MARSHALLTOWN MEDICAL & SURGICAL CENTER..... | 148 |
| MARY GREELEY MEDICAL CENTER.....            | 150 |
| MERCY HEALTH CENTER .....                   | 152 |
| MERCY HOSPITAL.....                         | 154 |
| MERCY HOSPITAL.....                         | 156 |
| MERCY HOSPITAL.....                         | 158 |
| MERCY HOSPITAL.....                         | 160 |
| MERCY HOSPITAL MEDICAL CENTER.....          | 162 |
| MERCY HOSPITAL OF FRANCISCAN SISTERS .....  | 164 |
| MERCY MEDICAL CENTER.....                   | 166 |
| MERRILL PIONEER COMMUNITY HOSPITAL .....    | 168 |
| MITCHELL COUNTY MEMORIAL HOSPITAL .....     | 170 |
| MONROE COUNTY HOSPITAL.....                 | 172 |
| MONTGOMERY COUNTY MEMORIAL HOSPITAL.....    | 174 |

|                                               |     |
|-----------------------------------------------|-----|
| MUSCATINE GENERAL HOSPITAL .....              | 176 |
| NORTH IOWA MEDICAL CENTER .....               | 178 |
| NORTHWEST IOWA HEALTH CENTER.....             | 180 |
| ORANGE CITY MUNICIPAL HOSPITAL .....          | 182 |
| OSCEOLA COMMUNITY HOSPITAL.....               | 184 |
| OTTUMWA REGIONAL HEALTH CENTER.....           | 186 |
| PALMER LUTHERAN HEALTH CENTER.....            | 188 |
| PALO ALTO COUNTY HOSPITAL .....               | 190 |
| PELLA COMMUNITY HOSPITAL .....                | 192 |
| PEOPLES MEMORIAL HOSPITAL .....               | 194 |
| POCAHONTAS COMMUNITY HOSPITAL .....           | 196 |
| RINGGOLD COUNTY HOSPITAL.....                 | 198 |
| SAMARITAN HOSPITAL SOUTH.....                 | 200 |
| SARTORI MEMORIAL HOSPITAL .....               | 202 |
| SHELBY COUNTY MYRTUE MEMORIAL HOSPITAL .....  | 204 |
| SHENANDOAH MEMORIAL HOSPITAL .....            | 206 |
| SIOUX VALLEY MEMORIAL HOSPITAL.....           | 208 |
| SKIFF MEDICAL CENTER.....                     | 210 |
| SPENCER MUNICIPAL HOSPITAL.....               | 212 |
| ST ANTHONY REGIONAL HOSPITAL.....             | 214 |
| ST JOSEPH COMMUNITY HOSPITAL .....            | 216 |
| ST JOSEPH MERCY HOSPITAL .....                | 218 |
| ST JOSEPHS MERCY HOSPITAL .....               | 220 |
| ST LUKES HOSPITAL .....                       | 222 |
| ST LUKES HOSPITAL .....                       | 224 |
| ST LUKES REGIONAL MEDICAL CENTER .....        | 226 |
| STEWART MEMORIAL COMMUNITY HOSPITAL .....     | 228 |
| STORY CITY MEMORIAL HOSPITAL.....             | 230 |
| STORY COUNTY HOSPITAL.....                    | 232 |
| TRINITY REGIONAL HOSPITAL.....                | 234 |
| UNIVERSITY OF IOWA HOSPITAL & CLINIC.....     | 236 |
| VAN BUREN COUNTY MEMORIAL HOSPITAL.....       | 238 |
| VETERANS MEMORIAL HOSPITAL.....               | 240 |
| VIRGINIA GAY HOSPITAL.....                    | 242 |
| WASHINGTON COUNTY HOSPITAL.....               | 244 |
| WAVERLY MUNICIPAL HOSPITAL.....               | 246 |
| WAYNE COUNTY HOSPITAL .....                   | 248 |
| WINNESHIEK COUNTY MEMORIAL HOSPITAL.....      | 250 |
| State and National Hospital Information ..... | 252 |
| Hospital Comments                             |     |





# INTRODUCTION

The Medicare Hospital Information report contains information on acute care hospitals that treated Medicare patients discharged in Federal fiscal year (FY) 1990 (October 1, 1989—September 30, 1990).

This year's publication set consists of 54 State volumes and a Technical Supplement (Volume 55). There is one volume per State, except that California and Texas have two volumes each, Hawaii is combined with American Samoa and Guam, and Puerto Rico and the Virgin Islands are combined together in one volume.

Each hospital's two summary data pages are arranged alphabetically by hospital name in each State volume. These data pages consist of:

- The hospital's FY 1990 Medicare hospital mortality rates;
- A graphic presentation of the predicted and observed mortality rates for most hospitals for "All Causes" for FYs 1988—1990 at 30, 90, and 180 days;
- The FY 1990 values for selected explanatory factors used to predict the mortality rates;
- Origins and lengths of stays of Medicare admissions; and
- Hospital characteristics, such as the number of beds and other characteristics, which we obtained from data contained in the American Hospital Association's (AHA) 1990 Annual Survey of Hospitals files or, when such information was not available from the AHA file, the Health Care Financing Administration's (HCFA) Online Survey, Certification and Reporting System (OSCAR) file.

*Please note that the information regarding origins and lengths of stays and hospital characteristics are presented strictly for information purposes only. They were not used to calculate the hospital's predicted mortality rates.*

Toward the end of each volume, we include both State and national mortality rates developed by our analysis, as well as the comments we received from individual hospitals.

## DESCRIPTION OF MORTALITY INFORMATION

The mortality rates at a given hospital may reflect, among other factors, the age, sex, diagnoses, and severity of illness of patients admitted to that hospital, as well as the quality of care they received. Factors affecting health and the probability of death vary among the patient populations served by individual hospitals. Consequently, the mortality rates in different patient populations vary considerably.

These latest analyses of the mortality rates associated with Medicare hospitalizations are similar to those carried out in the four prior years. Only one hospitalization for every patient was used. As in last year's analysis, when a patient had multiple hospitalizations during the fiscal year, one stay was selected at random to be analyzed. We believe that the use of the randomly selected admission provides a better representation of a typical hospital admission and permits us to calculate mortality rates more nearly like those the hospital itself would calculate for its patients.

Although we publish data only on deaths which occur within 180 days of admission to the hospital, for purposes of analysis our methodology actually considers deaths which occur any time within 365 days of admission (with the exception that no date of death later than April 1, 1991 is used). This is part of the formula which assesses the long-term risk of mortality. With this approach, information about the early and later results of the hospitalization is provided. This is important because diseases evolve with different time courses, and treatments may have different short- and long-term effects. The choice of at least 180 days allows substantial followup consistent with timely reporting of HCFA data.

We again analyzed the data on a fiscal year, rather than on a calendar year, basis because it allows us to report on recent hospitalizations. Also, new Medicare rules are often instituted on a fiscal year basis.

For each hospital, mortality rates are presented for overall Medicare patient mortality and for eight medical conditions and nine procedures. The information consists of the number of Medicare patients; the observed or actual mortality rate (OBS); the predicted mortality rate (PRED), given the mix of patients; and a standard deviation (SD), a measure of the uncertainty of the predicted rate.

The following information will be helpful when reviewing specific information for any given hospital.



## *Number Of Cases*

This is the number of individual Medicare beneficiaries whose discharge in a fiscal year from the short-term, acute care hospital listed was selected for analysis. The total number of cases randomly selected for each hospital is presented under the category “All Causes.” The eight medical condition and nine surgical procedure categories are subgroupings drawn from the “All Causes” selection. Although a particular patient may appear in only one of the eight medical condition categories, that same patient may also appear in one or more of the nine surgical procedure categories. Similarly, a patient may appear in one or more of the nine surgical procedure categories, even though he or she was not included in any of the eight medical condition categories.

The categories chosen for display represent HCFA's interpretation of the categories judged to be important by various outside advisors including the Institute of Medicine. The listed condition and procedure categories do not cover the reason for admission of all the hospitalized Medicare patients in this study. (The ICD-9-CM codes included in each condition and procedure category appear in Table 1 following this Introduction section.)

These conditions and procedures represent the causes for the hospital admission and/or surgical episodes during that stay; they do not necessarily represent the cause of death. HCFA does not have access to cause of death information.

## *Observed Mortality Rate (OBS)*

The observed mortality rate for each category is the percentage of each acute care hospital's selected Medicare patients who died within 30, 90, or 180 days of the selected admission. This rate does **not** represent the percentage whose death was caused by a particular condition or procedure.

The percentage is rounded to the nearest one-tenth of one percent. Both inhospital deaths and deaths occurring after discharge but within 30, 90, or 180 days of admission are included. For example, if a hospital had 1,000 patients included in the “All Causes” category and 124 of these patients died within 30 days of the selected admission, the 30-day observed mortality rate would be 12.4 percent; if an additional 17 patients died more than 30 but less than 91 days after admission, the 90-day observed mortality rate would be 14.1 percent; and if an additional 13 patients died more than 90 but less than 181 days after admission, the 180-day observed mortality rate would be 15.4 percent.

It is important to note that the observed mortality rate is cumulative; e.g., the 90-day observed mortality rate includes all deaths which occur within 30 days of admission, as well as those occurring more than 30 and less than 91 days after admission.

### ***Predicted Mortality Rate (PRED)***

The predicted mortality rate for each hospital's patients is derived in part by determining, based on national experience, the contribution to the probability of dying associated with various patient characteristics such as:

- Principal diagnosis (grouped into 23 analytical risk categories),
- Age,
- Sex,
- Previous hospital admissions within the prior six months,
- Admission source (e.g., physician reference, skilled nursing facility reference),
- Admission type (e.g., elective or emergency), and
- The presence of up to seven comorbid conditions—cancer, chronic cardiovascular disease, chronic renal disease, chronic liver disease, chronic pulmonary disease, cerebrovascular degeneration, and chronic diabetes. A list of the ICD-9-CM codes defining the comorbid conditions is in Table 2 following this Introduction section.

### ***Standard Deviation (SD)***

The standard deviation is a tool to gauge the extent to which the difference between the observed and predicted mortality rate is meaningful. In general, the greater the difference between the two rates, the greater the probability that the difference represents an actual variation from what would be expected in view of the national experience. The less chance that the difference between the PRED and the OBS can be attributed to statistical variability, the more grounds for possible concern about the institution's performance.

Information on how to use the SD to construct prediction intervals for use in assessing the real difference between the OBS and the PRED is included in the Technical Information section of this Introduction. The precision and interpretability of the estimates are weaker when there are no deaths or 50 or fewer cases in a particular category being analyzed. Thus, for these instances, dashes (“---”) are placed in the SD column.



## **OBSERVED MORTALITY RATE AND PREDICTED RANGE FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**

Also in this year's report, we have presented graphs that display the information for most hospitals described above for FYs 1988 and 1989, as well as FY 1990. (In particular, these graphs could not be computed for hospitals that had 50 or fewer cases or no deaths in FYs 1988, 1989, or 1990). In constructing the graphs, we used 2 times the standard deviation to approximate a 95 percent prediction interval. The observed mortality is shown as a dot (•). The predicted mortality is shown at the middle of a range of mortality rates. The bottom of the range is the predicted mortality minus twice the standard deviation, and the top of the range represents the predicted mortality plus twice the standard deviation. The graphs for FY 1988 and FY 1989 are based on new random samples and new computations for this year's report. Thus, the calculations for some hospitals for FY 1988 and FY 1989 may be different from previous releases, because we are including more current data in this year's report.

## **FY 1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

This year's report includes the FY 1990 average at each hospital of many of the explanatory factors used to predict that hospital's mortality rates. This information provides a profile of the patients used in the analysis and should help to identify possible systematic coding errors in the claims data used to calculate the mortality rates. These percentages are derived from the patients included in the sample and should be applied to the total number of cases listed in "All Causes." It is important to note that neither the admission sources/types nor the comorbidities categories are mutually exclusive. For example, a patient could be both "referred by his personal physician" and "admitted for elective procedure." Similarly, a patient could have secondary diagnoses of both cancer and diabetes.

## **INFORMATION SOURCES AND NOTES**

We believe that when the mortality rate information is properly understood and applied, it can be very useful; it can also be misleading if it is interpreted incorrectly. The information simply describes one of several possible outcomes at a hospital—postadmission mortality for Medicare beneficiaries.

Mortality information is not necessarily representative of a hospital's total performance in all aspects of patient care. Individual hospitals may have very good reasons for their rates being higher than the rates predicted by the HCFA model. For example, one hospital might have different death rates than another because its patient mix is not fully accounted for by the model.

Accordingly, we offered each hospital the opportunity to review their specific information and to provide comments to HCFA and the public, and we included those comments that were received timely at the end of this volume. Users should read the discussions about the uses and limitations of the mortality information found on page xiii, as well as any comments a hospital may have provided.

### *Hospitals In The Analysis*

The hospitals included in this analysis are participating in Medicare as short-term, acute care facilities—all have a zero in the third position of their Medicare provider number. All other hospitals—those with something other than a zero in the third position of their provider number, such as rehabilitation facilities or psychiatric institutions—were excluded. This year, as in the past two years, we have also excluded hospices.

In some cases, we have included data for hospitals that closed, changed ownership, or changed management either during or subsequent to FY 1990. Our data included for those institutions reflects the situation as it existed at the time the hospitalizations analyzed occurred.

### *Data Sources*

This report is based primarily on Medicare hospital billing information for Federal fiscal years 1988, 1989, and 1990. While the principal source of the data for the analysis was the HCFA-maintained Medicare Provider Analysis and Review (MEDPAR) file, which contains information about each Medicare hospitalization, some of the information about beneficiaries, such as date of death, was obtained from the Social Security Administration. Hospitals submit bills to HCFA's fiscal intermediaries (which handle claims for the inpatient care provided to Medicare beneficiaries) which, in turn, submit this information to HCFA. The file is updated on a quarterly basis. Our analysis was based on information available following the June 1991 update of the MEDPAR file. It is estimated that by that time (nine months after the close of the fiscal year), 98 percent of all Medicare discharges in FY 1990 are included in the file.

### *Possible Limitations Of The Data*

In any large-scale data base, such as the one dealing with Medicare hospitalizations, there will be gaps or inaccuracies. For example, last year some hospitals had not accurately reported the source or type of admission, and thus erroneous information was included in the analysis for those hospitals. However, the fact that the files contain information on about 10 million hospital admissions to nearly 6,000 hospitals for each year provides some assurance that, for purposes of the statistical analysis conducted here, the information that might be



missing or inaccurate is such a small portion of the total that it would have little effect on the results for national estimates. Nevertheless, it may substantially affect an individual hospital if it were the source of the inaccurate information.

While we feel that the information used in this analysis is thorough and complete, there are a few points to keep in mind as you review the mortality information.

The information used is billing data; it is only as good as the information submitted by hospitals as part of the payment process. Although there is always a possibility that coding errors are included, we assume that, given the link to payment, hospitals have an incentive to submit bills accurately and promptly. We do know, however, that some hospitals submitted incomplete or erroneous data.

For example, following last year's public release of the hospital mortality data, several hospitals wrote to HCFA indicating that they had submitted incorrect data. Furthermore, they stated that if they had given us the correct information, their predicted mortality rates would have been higher than those presented in HCFA's report. Therefore, in this year's report we have annotated those hospitals' data pages with a footnote stating: "This hospital says that it submitted inaccurate data to Medicare and claims that its predicted mortality rate should be higher than that presented above." At this point, however, HCFA cannot confirm the validity of those hospitals' claims. The analysis results might very well be different if the data on which they were based were submitted accurately by those hospitals.

In our previous analysis of mortality data, we discovered that some States had zero admissions from a skilled nursing facility. While some of these problems were corrected on the MEDPAR files used for this analysis, at the time this study was initiated we found empirical evidence that some of the files still contained suspect information. The suspect data were identified by noting those months (date of discharge) and fiscal intermediaries for which the type and source of admission fields appeared to be interchanged. Based on our findings, we reversed these fields to at least partially correct the remaining discrepancies. The following list shows the specific instances for which the fields were reversed for this analysis.

#### TYPE AND SOURCE OF ADMISSION FLIPPED

| <u>FI No.</u> | <u>FI Name</u>         | <u>Dates</u>        |
|---------------|------------------------|---------------------|
| 00030         | Arizona Blue Cross     | 10/01/86 — 12/31/88 |
| 00080         | Maryland Blue Cross/DC | 06/01/87 — 09/30/87 |
| 00190         | Maryland Blue Cross    | 06/22/87 — 12/31/88 |
| 00400         | Texas Blue Cross       | 12/07/87 — 12/31/88 |

## HOW TO USE THIS INFORMATION

There are several key points to remember about the use of this information. **First, it is important to understand that the difference between the hospitals' mortality rates and the predicted rates in the tables in this report may not be a direct measure of the quality of care rendered in the hospitals.**

Second, the usefulness of this information depends upon the accuracy with which mortality rates can be predicted. We do not currently have any direct measurement tool with which we can fully adjust for severity of patient illness differences among hospitals. For instance, two hospitals may have very different death rates for patients admitted for stroke, even after we have adjusted for age, sex, and several other factors. This might happen because one hospital's stroke patients may consist of a significant number who are admitted in a coma (and are thus more likely to die), whereas another hospital's patient population may represent a broader spectrum of patients with cerebrovascular problems, or because these two hospitals, in fact, do provide different levels of quality of care. In addition, other factors affecting the probability of death in a particular case (e.g., family status/support, overall health status of the patient, etc.) are not included in the predictive model because information on them is not readily available.

Nevertheless, we believe that the information presented in this publication is an important contribution to the health care community and should be helpful to a wide range of individuals and organizations including consumers, hospital administrators, physicians, PROs, and researchers.

### *Use By Consumers — Some Key Questions*

Consumers should read carefully the explanations of the uses and limitations of the information. Listed below are some questions that we recommend a consumer think about before choosing a hospital. Please keep in mind that this is not a comprehensive list, but it should serve to illustrate the types of questions that are important to consider.

- Why are the hospital's observed mortality rates for “All Causes” consistently and significantly above the predicted rates for FY 1990?
- Why are the hospital's observed mortality rates for the condition for which I need treatment or the procedure I will undergo consistently and significantly above the predicted rates for FY 1990?
- How does this hospital's pattern of mortality compare with that of other hospitals in the State and Nation?



- Is the number of cases too small to present a satisfactory picture of the hospital?
- Does the hospital treat a large number of cases in the category for which I need treatment?
- Does the hospital treat a large number of patients who have several co-existing illnesses or who otherwise are likely to be “sicker” than average?

### *Other Users Of This Publication*

Among other users of this publication, we expect that the hospital administrator (in consultation with medical staff) will find the information most useful as a screening tool to evaluate a hospital's strengths and weaknesses. We know that some hospitals and their medical staffs, using established and newly emerging quality assessment techniques, are seeking information that will result in improved health care delivery.

### *Outside Assistance In Developing This Publication*

The development and presentation of the Medicare Hospital Information report continues to be an important part of HCFA's responsibilities in the health care community. To make the information as accurate and useful as possible, over the past several years we have discussed the theoretical framework and statistical approach with a number of nationally recognized technical experts in appropriate fields. Based on their recommendations, we believe that the models used in these analyses continue to be reasonable and appropriate.

In the past, we have conducted validation studies of our methodology. In general, these studies have found correlation between poor quality care and hospitals whose observed mortality rates significantly exceed the rates that would have been predicted. However, we have also found that detailed clinical data which more thoroughly characterize the severity of patient's illness, while they do not materially affect results describing the general pattern of mortality, do, in specific instances, alter our assessment of the comparison of the observed to the predicted mortality rates.

The format for presentation, the process for sharing the information with individual hospitals, and the statistical methodology have been discussed at various meetings with leaders of organizations representing Medicare beneficiaries, physicians, and hospitals. Also, we have spent many months reviewing the comments received from the hospitals regarding their patient-specific data for earlier years and our previous mortality information reports. Many suggestions from these sources have been incorporated into this report.



We have carefully investigated comments from individual hospitals on apparent discrepancies or errors generated in previous years. These discrepancies rarely had an effect on a hospital's overall mortality rate. Most of these instances fell into the following two broad categories.

- **Inaccurate Date of Death** — We found that inpatient billing coding errors (e.g., a hospital bill indicating that the patient's status at time of discharge was “expired” when the patient had, in fact, left the hospital alive) created many of these errors. We now have mechanisms in place that allow a continuous update of HCFA's master file, thereby enabling us to make corrections.
- **Discrepant Case Counts** — Our analysis counts only one acute care discharge in a fiscal year; normally, hospitals count each discharge. Thus, a patient admitted three times in a year would count three times for the hospital, but only once for the purpose of analyzing Medicare hospital mortality data presented in this report.

*We believe it is important for consumers of health care to have access to as much information about hospitals as possible when making health care choices. Along with hospital characteristics information, we have added this year information about the origin and length of stay of Medicare admissions. This information is presented for comparative purposes only and was not used in calculating a hospital's predicted mortality rates. These data were not part of the analyses, and any errors or discrepancies in them do not affect the predicted mortality rates.*

## ORIGIN OF MEDICARE ADMISSIONS

Data on the geographic origin of each hospital's patients are presented in this year's report. We obtained from the Health Insurance Master file the State and county of residence for each Medicare beneficiary discharged from a Medicare-certified, acute care hospital during FY 1990. We then compared that information with the location of the hospital to determine the percentage of all discharges where the patient lived within the same city/county as the hospital location, within the State where the hospital is located, or outside the State. The percentages are derived by dividing the number of discharges of beneficiaries in a geographic category by the total number of Medicare discharges from the hospital. Please note that these are percentages of total Medicare discharges, not of the mortality sample alone.

## MEDICARE AVERAGE LENGTH OF STAY

We obtained from the MEDPAR file the total days of care—both Medicare covered and noncovered—and divided that total by the number of discharges from each hospital. Total, rather than covered, days were used because, under the Prospective Payment System (PPS), if a Medicare patient has at least one day of hospital coverage available to him in the current spell of illness, the hospital will be paid the full diagnosis related group (DRG) amount plus any approved outlier amount, regardless of the number of days actually used.

Example: Hospital A had 2,513 Medicare discharges with a total of 24,379 days.

Calculation: 
$$\frac{24,379}{2,513} = 9.7 \text{ days}$$

The Medicare average length of stay is 9.7 days.

## HOSPITAL CHARACTERISTICS

As noted previously, we have again included information on selected hospital characteristics such as the number of beds, occupancy rate, ownership, staffing, and specialty services. This information was obtained from the American Hospital Association's (AHA) 1990 Annual Survey of Hospitals, with the exception of the case mix index (CMI), which was derived from HCFA billing data. This file consists of information voluntarily reported by hospitals to the AHA. In instances where AHA data were unavailable, for example for hospitals that did not respond to the AHA survey, we derived the information from HCFA's Online Survey, Certification and Reporting system (OSCAR). The hospital characteristics and the specific special services listed were selected with the concurrence of the AHA as being those most meaningful to the Medicare population. Information on these specific data elements follows.

### *AHA Definitions (except for CMI)*

**Survey and Year** — AHA 1990. Source is the American Hospital Association's 1990 Annual Survey of Hospital files.

### **Profile**

***Total beds (#)*** — Number of beds (including subacute beds), cribs, and pediatric and neonatal bassinets regularly maintained (set up, staffed, and ready for use) for inpatients as of the close of the reporting period; does not include bassinets for normal newborn infants.

***Occupancy rate (percent)*** — Ratio of average daily census to the average number of beds (statistical beds) maintained during the 12-month reporting period. (NOTE: The number of these "statistical beds" may differ from the bed count at the close of the reporting period.)

***Ownership/control*** — State government, local government, district/authority, church, private nonprofit, private for profit, or Federal Government.

***Medicare discharges*** — The total number of inpatient discharges for Medicare patients for those hospitals selected for the mortality calculations, including all discharges for persons with more than one hospitalization during the year. (The mortality data include only one randomly selected discharge for each hospitalized enrollee. Therefore, this figure may reflect more discharges than the actual number of cases randomly selected for the mortality study.)



***Case mix index (CMI)*** — A measure of the overall complexity of the Medicare cases treated by a given hospital compared to the complexity of the national average case mix. The CMI represents the relative costliness of each hospital's mix of cases compared to the national average mix of cases. A CMI of greater than one means that a hospital treats more complex cases than average. A CMI of less than one means that a hospital treats less complex cases than average. The CMI for each hospital is calculated on an annual basis. In this report, the CMI presented for each hospital is calculated based on its discharges in FY 1990.

A hospital's CMI is calculated by multiplying the number of cases in each DRG by the relative weight of that DRG, summing the products, and dividing the sum by the total number of cases for the year. For calculating the FY 1990 CMI, use the DRG relative weights published in the *Federal Register*, Volume 54, Number 169, pages 36468 ff., dated September 1, 1989.

## **Staffing (all AHA counts are as of 9/30/90)**

***Total number of physicians*** — Total active and associate medical staff.

***Percent of physicians who are board-certified specialists*** — Physicians who have passed an examination given by a medical specialty board and have been certified by that board as a specialist.

***Medical residents/interns*** — Full-time equivalent (FTE) medical residents or interns.

***Registered nurses*** — Full-time equivalent (FTE) registered nurses.

***Licensed practical nurses*** — Full-time equivalent (FTE) licensed practical nurses.

## **Specialty Services**

***Burn Unit*** — Provides more intensive care to severely burned patients than the usual acute nursing care provided in medical and surgical units. Beds must be set up and staffed in a unit specifically designated for this service.

***Cardiac Intensive Care*** — Provides patient care of a more specialized nature than the usual medical and surgical care, on the basis of physicians' orders and approved nursing care plans. The unit is staffed with specially trained nursing personnel, and contains monitoring and specialized support or treatment equipment for patients who, because of heart seizure,

open-heart surgery, or other life-threatening conditions, require intensified, comprehensive observation and care. May include myocardial infarction, pulmonary care, and heart transplant units. Beds must be set up and staffed in a unit(s) specifically designated for this service.

***Comprehensive Geriatric*** — Provides diagnostic and evaluation services that determine elderly patients' long-term care needs. It includes the assessment of medical conditions, functional activities, and mental and emotional conditions, and incorporates these into a treatment plan which includes family and financial concerns as well as medical needs.

***Hospice Care*** — A program providing primarily medical relief of pain and support services to terminally ill patients and assistance to their families in adjusting to the patients' illness and death.

***Medical/Surgical Intensive Care*** — Provides nursing care to adult and/or pediatric patients of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Included are medical-surgical, pediatric, and psychiatric (isolation) units. These units are staffed with specially trained nursing personnel, and contain monitoring and specialized support equipment for patients who, because of shock, trauma, or life-threatening conditions, require intensified, comprehensive observation and care. These units may also include cardiac care when such services are not approved in a distinct cardiac care unit. This category is called "intensive care unit" in OSCAR.

***Organ/Tissue Transplant*** — The hospital has the necessary staff and equipment to perform the surgical removal of a viable human organ or tissue from a donor, either living or deceased, and the surgical grafting of the organ/tissue to a suitably evaluated and prepared patient.

***Other Intensive Care*** — Provides nursing care to adult and/or pediatric patients with a specialized disease or condition of a more intensive nature than the usual medical, surgical, pediatric, and/or psychiatric care on the basis of physicians' orders and approved nursing care plans. Examples reported include oncology or spinal cord injuries. These units are staffed with specially trained nursing personnel and contain monitoring and specialized support equipment appropriate for the patients' specialized conditions.

***Trauma Center*** — Provides emergency and specialized intensive care to critically injured patients.



## Other Specialty/Hospital-Based Services

***Alcohol/Drug*** — Hospital services for the medical care and/or rehabilitative treatment of outpatients whose primary diagnosis is alcoholism or other chemical dependency.

***Rehabilitation*** — A unit having designated beds and providing a comprehensive array of multidisciplinary medical rehabilitation services.

***Psychiatric*** — Care provided to emotionally disturbed, chronically mentally ill, mentally disordered, or other mentally incompetent patients on the basis of physicians' orders and approved nursing care plans. Beds must be set up and staffed in units specifically designated for this service.

***Medicare Swing Beds*** — The hospital is certified by Medicare to provide “swing bed” services; that is, some acute care beds can be used for skilled nursing facility type care in the hospital for Medicare purposes.

## *OSCAR Definitions (except for CMI)*

**Survey and Year** — HCFA, most recent year. Data were derived from the Online Survey, Certification and Reporting System (OSCAR).

## Profile

***Total beds (#)*** — Total number of operational beds eligible for Medicare payment.

***Ownership/control*** — Church; private, nonprofit; other nonprofit; proprietary; Federal Government; State government; local government; and hospital district or authority.

***Case mix index (CMI)*** — See definition shown in AHA “Profile” section.

## Staffing

***Medical residents/interns*** — Full-time equivalent (FTE) medical residents or interns.

***Registered nurses*** — Full-time equivalent (FTE) registered nurses.

***Licensed practical nurses*** — Full-time equivalent (FTE) licensed practical nurses.

## Specialty Services

**NOTE:** There are no specific definitions of specialty services in OSCAR. Characteristics are self-reported by each hospital at initial Medicare certification and recertification, and are generally understood to parallel the explicit AHA definitions (above). The AHA categories “comprehensive geriatric” and “other intensive care” are not available in OSCAR. However, they may be included in the OSCAR category of other specialty services (not shown in table).

**Coronary Care** — See definition shown in AHA “Specialty Services” section.

**Intensive Care Unit** — See definition shown in AHA “Specialty Services” section. These units may also include other intensive care units in OSCAR reporting.

**Organ Transplant** — See definition shown in AHA “Organ/Tissue Transplant” section. May include tissue transplants because there is not a separate field in OSCAR for these services.

# TECHNICAL INFORMATION

## DATA SOURCES

The data analyzed in this report are obtained from the Medicare Provider Analysis and Review (MEDPAR) file for the fiscal years 1987-1990, which contains information on the hospital stays of Medicare beneficiaries. The principal sources of data for this file are the bills (known as HCFA-1450 or UB-82) submitted by the hospitals to HCFA through fiscal intermediaries. The MEDPAR file also contains data about the beneficiaries, such as age, sex, and date of death, which are obtained from the Social Security Administration, the Railroad Retirement Board, or the Office of Personnel Management.

Hospital stays with discharges in fiscal years 1988, 1989, and 1990 were used in these analyses. Hospital stays in 1987 were used only to characterize the prior admissions of the patients in the 1987 cohort. Only acute care hospital stays in short-term (general and specialty) hospitals were selected. These hospitals have a "0" in the third position of their Medicare provider number. Hospital stays in institutions (designated by a "9" in the fourth position of the provider number) and hospital stays in psychiatric units, rehabilitation units, swing-beds and alcohol/drug units (with "special unit codes" of S, T, U and V, respectively, in the third position) were excluded.

## THE MORTALITY MODEL

For each beneficiary in each year one hospitalization was selected at random. Choosing a specific hospitalization is necessary to avoid multiple counting of the same death for that year. Selecting a random hospitalization instead of the first or last in the year produces mortality rates that are more representative of the rates that a hospital might calculate for its patients. Also, the mortality rates based on this random selection process reflect an intermediate position between the rates produced by the alternatives.

The selected hospital stays were analyzed separately by analytical category. The analytical categories were created by grouping ICD-9-CM diagnosis codes that had similar mortality patterns. The procedures for creating the analytical categories and the groups of ICD-9-CM diagnosis codes that defined them are detailed in the Technical Supplement.

The mortality experience of the patients was evaluated as a function of time within 365 days of the admission. The factors included in the mortality model used to evaluate each patient's probabilities of death are given in Table 3. They consist of demographic characteristics (age and sex), major comorbidities (chronic diseases likely to have been present at admission and believed to



complicate management and increase the likelihood of an adverse outcome), prior admissions (grouped into five risk or severity levels) within the 6 months preceding the admission evaluated, admission type (emergent, elective, etc.), and admission source (referral from the physician's office, the nursing facility, etc.). The specific reason for the admission (the principal diagnosis) and the performance of selected surgical procedures were additional factors used in the estimation of the predicted probability of death (see below).

The observed mortality rate for a hospital was calculated by means of the lifetable method ("The LIFETEST Procedure," Chapter 22, SAS User's Guide: Statistics, Version 5 Edition, pages 529-557).

## ANALYTIC TECHNIQUES

A time-to-event or survival model with explanatory or concomitant variables was used to ascertain the influence of the patient characteristics listed above on the probability of death. A feature of such a model is allowance for "right censored" observations. Generally, these are events or outcomes which would have occurred but for some interference that prevents further observation. In the present analysis, "right censoring" occurs when a patient is withdrawn alive from the study April 1, 1991 or at the end of the followup period of 365 days.

The survival function,  $S(t)$ , is one of several equivalent ways of expressing the model. Another form uses the cumulative distribution function or the mortality function

$$F(t) = 1 - S(t).$$

Another useful formulation of these models is the hazard function,  $h(t)$ , also known as the force of mortality or risk function. The hazard is the rate of decrease in the number of survivors relative to the number of survivors at a specific time. Mathematically, the hazard function is

$$h(t) = - \frac{1}{S(t)} \frac{dS(t)}{dt} = - \frac{d \ln(S(t))}{dt}.$$

The probability density function,  $f(t)$ , commonly used in statistical texts can be expressed as follows:

$$f(t) = \frac{dF(t)}{dt} = h(t)S(t).$$

The area under the survival curve is the expected value for  $t$ . In some cases, the area under the survival curve is restricted to an interval  $0-t_1$  where  $t_1$  might be one year, for example.

The specific time-to-event or survival model used in the present analysis is Bailey's modification of the Makeham model. The survival function for the Bailey-Makeham model is

$$S(t) = \exp\left\{-\delta t - \left(\frac{\alpha}{\gamma}\right)(1 - \exp(-\gamma t))\right\}$$

where

$$\alpha = \exp(\alpha_0 + \alpha_1 x_1 + \dots + \alpha_i x_i + \dots + \alpha_k x_k)$$

$$\gamma = \exp(\gamma_0 + \gamma_1 x_1 + \dots + \gamma_i x_i + \dots + \gamma_k x_k)$$

$$\delta = \exp(\delta_0 + \delta_1 x_1 + \dots + \delta_i x_i + \dots + \delta_k x_k)$$

are the expressions for each of the structural parameters  $\alpha$ ,  $\gamma$ , and  $\delta$  in terms of the  $k$  concomitant variables  $x_i$  and their associated component parameters  $\alpha_i$ ,  $\gamma_i$ , and  $\delta_i$  for  $i=1, 2, \dots, k$  and three intercepts or component parameters  $\alpha_0$ ,  $\gamma_0$ , and  $\delta_0$ . The structural parameter  $\delta$  is the long-term risk which is approached as  $t \rightarrow \infty$ . The structural parameter  $\alpha$  is the initial excess risk which decays with rate constant  $\gamma$ .

For the survival function given above, the risk or hazard function has an especially tractable form of an exponential decay which approaches a long-term risk,  $\delta$ . The hazard function corresponding to the survival function above is

$$h(t) = \alpha \exp(-\gamma t) + \delta .$$

The estimation of the component parameters was carried out in a series of steps in which those covariates which had estimable and statistically significant ( $p < 0.05$ ) influences of the probability of death were identified for inclusion in the model. As the model for each of the 23 risk categories was estimated separately, different lists of covariates were used for the final core models.

This first step was followed by the estimation of the additional contribution of specific principal diagnoses in each risk category. In these analyses, the effects of the patient characteristics included in the core models were corrected for. Only those principal diagnoses were retained which were estimable and had more than 900 cases (more than 300 for codes identified by year). Similarly, after adjustment for the effects of both the variables in the core model and the principal diagnoses, correction terms were calculated to estimate the additional information about the probability of death associated with the categorization of the patients into the clinical groups used for the presentation of the data in the mortality tables (see below). These correction terms were negligible for the medical categories but substantial for the surgical categories.

Once the component parameters or regression coefficients  $\alpha_i$ ,  $\gamma_i$ , and  $\delta_i$  have been estimated, the predicted probability of patient death at any specified time after admission,  $1-S(t)$ , may be calculated for all individuals. To obtain the predicted mortality rate up to a given time for a hospital, it is then only necessary to average over the predicted probabilities of death of its patients to that time.

The analytical categories are useful for grouping the patients into relatively risk-homogeneous strata for the regressions. However, to gain insights into patterns of practice at hospitals, the data are presented for patients grouped into clinically meaningful medical and surgical categories. The 17 clinical categories used in the mortality tables and defined in Table 1 were identified by the Institute of Medicine as being of particular medical and epidemiologic interest.

## ESTIMATION OF THE STANDARD DEVIATION FOR PREDICTED MORTALITY

The standard deviation of the predicted mortality rate is used to assess how statistically different the observed mortality rate is from the rate predicted by the national experience with like patients. The standard deviation depends, in fact, on the variance of the residual or the difference between the observed,  $P$ , and predicted,  $\hat{\Theta}$ , mortality rates.

The residual has four components  $V_1$ ,  $V_2$ ,  $V_3$ , and  $V_4$  where  $V_1$  is the variance of the estimate of the predicted probability of death. This computationally intensive term was negligible for nearly all cases, compared to other components of variance. Consequently, this term was not included in the present analysis.

$V_2$  is the binomial variance for  $n$  patients

$$V_2 = \frac{\hat{\Theta} (1 - \hat{\Theta})}{n}.$$

$V_3$  is the variation among hospitals not explained by the mortality regression models containing the patient characteristics described above.

$$V_3 = \widehat{\text{Var}}(\hat{\Theta}) = \left(1 - \frac{1}{n}\right) \widehat{M_2}(\hat{\Theta})$$



where

$$\widehat{M_2(\Theta)} = \left\{ \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics and} \\ \text{adjustment for hospital effects} \end{array} \right) - \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics,} \\ \text{but omitting the hospital specific effects} \end{array} \right) \right\}^2 \left( \frac{1}{z_p^2} \right)$$

The quantity  $z_p$  corresponds to the statistical significance (p-value) of the hospital-specific effect.

$V_4$  is the variation not explained by the mortality regression models which each include, in addition, an indicator variable for the hospital:

$$V_4 = \left\{ \left( \text{Observed mortality} \right) - \left( \begin{array}{c} \text{Predicted mortality} \\ \text{on basis of} \\ \text{patient characteristics, and} \\ \text{adjustment for the hospital specific effects} \end{array} \right) \right\}^2 .$$

(The regression coefficients of the indicator variable for the hospital are a measure of the influence on the probability of patient death of factors not otherwise specified in the model. These factors include severity of illness not adequately reported on by the patient characteristics deduced from the claims data and the hospital's pattern of practice; i.e., performance.)

The standard deviation given in the mortality tables is just

$$SD = \sqrt{V_2 + V_3 + V_4}.$$

## STANDARDIZED MORTALITY RATIO (SMR)

Another method of evaluating a hospital's performance—the Standardized Mortality Ratio (SMR)—is obtained by dividing the observed mortality rate by the predicted mortality rate. An SMR of one means the observed and predicted mortality are equal. A ratio greater than one means the observed mortality exceeds the predicted. A ratio less than one means the observed mortality is less than expected. The more extreme the ratio (significantly greater than one indicating unusually high mortality and significantly less than one indicating unusually low mortality), the greater the attention which should be paid to the results of this mortality report.

For each of the conditions and procedures, selected percentiles for the observed distribution of the SMR are displayed in Table 4. The selected percentiles provide benchmarks for comparison. For example, for a hospital

with 300 cases in the “All Causes” category, with observed mortality of 12.2 percent and predicted probability of 10.0 percent at 30 days, the standardized mortality ratio is

$$\text{SMR} = 12.2/10.0 = 1.22.$$

Note that an SMR of one means the observed and predicted mortality are equal, while a ratio greater than one means the observed mortality exceeds the predicted, and a ratio less than one means the observed mortality is less than expected. There will be greater interest in the more extreme ratios, either greater than one — excessively high mortality — or less than one — extremely low mortality.

From Table 4 for FY 1990, we find that the ratio is just below the 75th percentile of 1.23. Hence, slightly under 75 percent of the hospitals have an SMR less than that found at this hospital.

However, for a hospital with 900 cases in the “All Causes” category, with observed mortality of 19.3 percent and predicted probability of 10.0 percent at 30 days, the standardized mortality ratio is

$$\text{SMR} = 19.3/10.0 = 1.93.$$

Since the SMR of 1.93 is greater than the 97.5 percentile of 1.35 (Table 4 for 750 or more cases), there is cause for concern. To further assess this, we examine the displayed data in terms of the measure of uncertainty, the standard deviation.

## MEASURES OF UNCERTAINTY

In principle, to use the standard normal approximations to determine prediction intervals, an adjustment must be applied for the skewness and kurtosis inherent in a mortality rate when the rate is considerably less than 50 percent and the number of cases is small. Table 5 presents the multiplicative factors, based on the binomial distribution, for the standard deviation needed to construct prediction intervals for the mortality rates at confidence levels of 75, 95 and 99 percent. Because of the approximations involved in the estimation of the skewness and kurtosis corrections, their precision decreases as the number of cases and the mortality rate decrease; i.e., as the value of the correction increases. In addition, because of simplifications and approximations in the estimation of the standard deviation, the precision of the multiplicative factors given in Table 5 exceeds the precision of the estimate of the standard deviation. Hence, the following rule-of-thumb represents an adequate approximation to the factors in Table 5 and an adequate guide to the statistical meaningfulness of the difference between the observed and the predicted mortality rates.



To illustrate the use of Table 5, consider a hospital with 75 cases and a predicted mortality of 13.0 percent with a standard deviation of 5.0 percent. Overall, for hospitals with patients with characteristics similar to those of this hospital, we would expect the actual or observed mortality rate to lie, 95 percent of the time, either between 13.0 percent and 22.9 percent if the actual is larger than the predicted, or between 3.3 percent and 13.0 percent if the actual is less than the predicted. That is because  $22.9 \text{ percent} = 13.0 \text{ percent} + 1.98 \times 5.0 \text{ percent}$ , the factor 1.98 having been read from the section of Table 5 with the heading “95 Percent Prediction Interval” and “Factor for Upper Bound,” the row “75” for the number of cases, and, by interpolation, between the “10 percent” and the “20 percent” predicted mortality rate columns. Similarly,  $3.3 \text{ percent} = 13.0 \text{ percent} - 1.94 \times 5.0 \text{ percent}$ , the factor -1.94 having been read from the section of Table 5 with the heading “95 Percent Prediction Interval” and “Factor for Lower Bound” and the corresponding row and columns.

Therefore, in comparing the actual and predicted rates, more attention should be given to the hospital whose observed mortality rate lies beyond the bounds calculated for the 99 percent prediction interval than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 95 percent prediction interval. Likewise, more attention should be given to that hospital than to the hospital whose observed mortality rate lies only beyond the bounds calculated for the 75 percent prediction interval.

For the graphs, the observed mortality and an approximate 95 percent prediction interval are displayed. The prediction interval has bounds at the predicted mortality plus 2 times the standard deviation and at the predicted minus 2 times the standard deviation.

In the mortality rate tables, the observed and predicted mortality rates and the standard deviation as a measure for statistical importance of the difference are displayed for the overall and each of the conditions and procedures.



## HOW TO OBTAIN MEDICARE HOSPITAL INFORMATION

The publication has been widely distributed to State health organizations and hospital and medical associations. The publication is available to the public for purchase in 55 volumes, with each volume being sold separately through the Government Printing Office (GPO). More detailed information about the purchase of this publication may be obtained by contacting:

Superintendent of Documents  
Government Printing Office  
Washington, D.C. 20402  
Telephone: (202) 783-3238

As in prior years, the information appearing in the Medicare Hospital Information report is available in machine-readable/electronic format (tape and diskette). The Medicare Hospital Information public use file provides the published information as contained in the 55-volume hardcopy publication, except that the AHA's hospital characteristics are not on this file. Hospital characteristics from HCFA files (OSCAR) are provided instead. The files contain additional information which is useful for supplemental analyses: averages by hospital, MSA, and State for each of the variables used in the model, mortality rates for 15, 30, 60, 90 and 180 days, and cross-reference files which relate State, MSA, and ICD-9-CM codes used to a name. These data should allow analysts to assess an individual hospital's performance in comparison to all hospitals in the State or applicable MSA.

Also available to hospitals in machine-readable format is their patient-specific data that were used in the report. These data include the patient variables used in the analysis (e.g., the number and severity level of prior hospitalizations considered by the methodology, admission source and type, etc.) and the predicted probability of death at each time interval for each individual included in the study. With these data it is possible for hospitals to better understand their statistics. Due to confidentiality considerations, requests for patient-specific data must be forwarded on hospital letterhead, must include the institution's Medicare provider number, and must be signed by the hospital administrator.

For information about obtaining Medicare Hospital Information electronic media data, please contact HCFA's Bureau of Data Management and Strategy at:

Health Care Financing Administration  
Bureau of Data Management and Strategy  
Office of Statistics and Data Management  
3-A-10 Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207  
Telephone: (410) 597-5151

# Table 1

## DIAGNOSTIC AND PROCEDURE CATEGORIES

The following lists the ICD-9-CM diagnostic and procedure codes used to classify and group patients for presentation

### CONDITION/PROCEDURE

### ICD-9-CM CODES

(D)=Diagnosis code

(P)=Procedure code

### Heart Disorders/Procedures

Acute Myocardial Infarction  
(AMI)

All of 410 (D) (on 10/1/89 exclude 410 with 5th digit of a 2)

*Note: For code 410 a 5th digit was added on October 1, 1989.*

Congestive Heart Failure  
(CHF)

398.91, 402.01, 402.11, 402.91, 428.0, 428.1, 428.9 (all D)

Angioplasty  
(ANGPLSTY)

All of 36.0 (P) excluding 36.00, 36.03, 36.04, 36.09 (all P)

*Note: Code 36.0 had a 4th digit added on October 1, 1986. Code 36.0 got digits of 0, 1, 2, 3, and 9, and code 36.04 got some previously coded cases of 39.97. On October 1, 1987, code 36.01 was divided into 36.01 and 36.05, and some cases from 36.02 were put into 36.05.*

Coronary Artery Bypass Graft  
(CABG)

All of 36.1(P) and not Angioplasty (see above)

Pacemaker Insertion, Initial  
(PACE)

37.73, 37.74, 37.75, 37.77 (after 10/1/87 use 37.70 through 37.73) (all P)

*Note: Code 37.70 was restructured on October 1, 1987. Previously the code contained both leads and devices. On October 1 these were separated and devices were coded as 37.80 through 37.83, and codes for the leads were changed into various 37.70 codes.*

**CONDITION/PROCEDURE****ICD-9-CM CODES***(D)=Diagnosis code**(P)=Procedure code***Pulmonary Disorders****Pneumonia/Influenza  
(PNU)**

All of 480, all of 481, 482.2, 482.3, 482.9, 483, 485, 486, 487.0 (all D)

**Chronic Obstructive Pulmonary  
(COPD)**

All of 491, all of 492, all of 494, Disease all of 496; and 466.0, 518.82, 518.5, and 786.09 when there is a secondary diagnosis of any 496 (all D)

***Note:** Code 518.8 got a 5th digit on October 1, 1987. Some cases from 799.1 were put into codes 518.81 and 518.82.*

**Cerebrovascular Disorders/Procedures****Transient Cerebral Ischemia  
(TCI)**

433.1, 433.3, 435 (D) and exclude those patients with an endarterectomy at the time of admission—38.12(P)

**Stroke  
(STK)**

431, 434 through 434.9, 436 (all D)

**Carotid Endarterectomy  
(ENDART)**

38.12 (P) with 433.1 (D); 433.3 (D) or 435(D) as a principal diagnosis

**Musculoskeletal Disorders/Procedures****Fracture of Neck of Femur  
(FXHIP)**

All of 820 (D)

**Hip Replacement/Revision  
(HIPREP)**

81.5, 81.6 (exclude 81.69) (all P). On 10/1/89 code 81.51 (P) through 81.53 (P) with same diagnoses.

**Open Reduction of Fractured Femur  
(OPRDUX)**

79.35(P) on condition of 820 (D) as principal diagnosis



**CONDITION/PROCEDURE****ICD-9-CM CODES***(D)=Diagnosis code**(P)=Procedure code***Genitourinary Disorders/Procedures**Prostatectomy  
(PROS)

60.2, 60.3 through 60.69 (all P)

Hysterectomy  
(HYS)

68.3 through 68.7 (P)

**Gastrointestinal Disorders/Procedures**Cholecystectomy  
(CHOLOTMY)

51.22 (P)

**Sepsis**

Sepsis

003.1, 020.2, 022.3, 036.2, 036.3,  
036.89, 036.9, 038.0, 038.1, 038.2,  
038.3, 038.40, 038.41, 038.42, 038.43,  
038.44, 038.49, 038.8, 038.9, 054.5

**Table 2**

**COMORBIDITY CONDITIONS**  
(all are D codes)

| COMORBIDITY                    | ICD-9-CM CODES                                                                                   |
|--------------------------------|--------------------------------------------------------------------------------------------------|
| Cancer                         | 141-160.9, 162-172.9, 174-208.91                                                                 |
| Chronic cardiovascular disease | 412-414.9, 426-429.1                                                                             |
| Chronic liver disease          | 571-572.8                                                                                        |
| Chronic renal disease          | 582-583.9, 585-587, 403.01, 403.11,<br>403.91, 404.02, 404.03, 404.12, 404.13,<br>404.92, 404.93 |
| Chronic diabetes               | 250.01, 250.1-250.91                                                                             |
| Chronic pulmonary disease      | 491-493.91, 496                                                                                  |
| Cerebrovascular degeneration   | 290-290.9, 294-299.9                                                                             |

# Table 3

## EXPLANATORY VARIABLES FOR THE MORTALITY MODEL

Generally the same variables are used for all diagnostic categories.

### Demographics

SXFM                      An indicator variable: = 1 if Female, 0 otherwise

AGEFM = AGESP if SXFM = 1, 0 otherwise

AGEML = AGESP if SXFM = 0, 0 otherwise

where

$$AGESP = \text{sign}(W-65) \left( \left| \frac{W-65}{65} \right| \right)^{1.44}$$

and

$$W = \begin{cases} 23 & \text{if AGE} \leq 23 \\ \text{AGE} & \text{if } 23 < \text{AGE} < 100 \\ 100 & \text{if } 100 \leq \text{AGE} \end{cases}$$

### Comorbidities

### ICD-9-CM Codes

(Indicator variables = 1 if comorbidity present on current or prior admission with discharge within 6 months prior to current admission, 0 otherwise)

|     |                                |                                                                                            |
|-----|--------------------------------|--------------------------------------------------------------------------------------------|
| CCA | Cancer                         | 141-160.9, 162-172.9, 174-208.91                                                           |
| CCV | Chronic cardiovascular disease | 412-414.9, 426-429.1                                                                       |
| CLV | Chronic liver disease          | 571-572.8                                                                                  |
| CRN | Chronic renal disease          | 582-583.9, 585-587, 403.01, 403.11, 403.91, 404.02, 404.03, 404.12, 404.13, 404.92, 404.93 |
| CDI | Chronic diabetes               | 250.01, 250.1-250.91                                                                       |
| COP | Chronic pulmonary disease      | 491-493.91, 496                                                                            |
| CCE | Cerebrovascular degeneration   | 290-290.9, 294-299.9                                                                       |



## Co Occurrence of Comorbidities

|         |                                       |
|---------|---------------------------------------|
| COP_CCV | 1 if COP = 1 and CCV = 1, 0 otherwise |
| CCA_CCV | 1 if CCA = 1 and CCV = 1, 0 otherwise |
| COP_CCA | 1 if COP = 1 and CCA = 1, 0 otherwise |
| CCE_CCV | 1 if CCE = 1 and CCV = 1, 0 otherwise |
| CRN_CCV | 1 if CRN = 1 and CCV = 1, 0 otherwise |

## Admission Sources and Types

(Indicator variables = 1 if source or type present, 0 otherwise)

|       |                                                   |
|-------|---------------------------------------------------|
| PREF  | Patient referred by personal or HMO physician     |
| TRSNF | Patient transferred from skilled nursing facility |
| ELCT  | Patient admitted for elective procedure           |
| EMRG  | Patient admitted for emergency                    |

## Co-Occurrence of Admission Source and Type

PREF\_ELEC = 1 if PREF = 1 and ELCT = 1, 0 otherwise

## Previous Hospitalizations

|         |                                                                                                             |
|---------|-------------------------------------------------------------------------------------------------------------|
| P_RISK1 | Number at 1st risk level with 3 or more set to 3                                                            |
| P_RISK2 | Number at 2nd risk level with 3 or more set to 3                                                            |
| P_RISK3 | Number at 3rd risk level with 3 or more set to 3                                                            |
| P_RISK4 | Number at 4th risk level with 4 or more set to 4                                                            |
| P_RISK5 | Number at 5th risk level with 3 or more set to 3                                                            |
| F(T)    | Probability of death from previous admission if discharge within 182 days of current admission, 0 otherwise |

## Time Trend

|        |                                                                                   |
|--------|-----------------------------------------------------------------------------------|
| FLAG89 | 1 if discharge in FY1989, 0 otherwise                                             |
| FLAG90 | 1 if discharge in FY1990, 0 otherwise                                             |
| INYEAR | Difference between current admission date and April 1 of fiscal year of discharge |

TABLE 4  
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES  
1990 STUDY, FY1990

| CONDITIONS/PROCEDURES   | NUMBER<br>OF<br>HOSPITALS | 30 DAYS |      |      |      |       | 90 DAYS |      |      |      |       | 180 DAYS |      |      |      |       |
|-------------------------|---------------------------|---------|------|------|------|-------|---------|------|------|------|-------|----------|------|------|------|-------|
|                         |                           | -----   |      |      |      |       | -----   |      |      |      |       | -----    |      |      |      |       |
|                         |                           | 2.5%    | 25%  | 50%  | 75%  | 97.5% | 2.5%    | 25%  | 50%  | 75%  | 97.5% | 2.5%     | 25%  | 50%  | 75%  | 97.5% |
| CONDITIONS              |                           |         |      |      |      |       |         |      |      |      |       |          |      |      |      |       |
| -----                   |                           |         |      |      |      |       |         |      |      |      |       |          |      |      |      |       |
| OVERALL( < 750 CASES )  | 2645                      | 0.45    | 0.88 | 1.04 | 1.23 | 1.72  | 0.56    | 0.90 | 1.03 | 1.17 | 1.54  | 0.61     | 0.90 | 1.02 | 1.15 | 1.46  |
| OVERALL( >= 750 CASES)  | 2684                      | 0.73    | 0.91 | 0.99 | 1.09 | 1.35  | 0.79    | 0.94 | 1.01 | 1.09 | 1.28  | 0.82     | 0.94 | 1.01 | 1.08 | 1.24  |
| PROCEDURES              |                           |         |      |      |      |       |         |      |      |      |       |          |      |      |      |       |
| -----                   |                           |         |      |      |      |       |         |      |      |      |       |          |      |      |      |       |
| ANGIOPLASTY             | 425                       | 0.00    | 0.49 | 0.89 | 1.33 | 2.66  | 0.00    | 0.60 | 0.93 | 1.36 | 2.34  | 0.00     | 0.63 | 0.97 | 1.34 | 2.14  |
| CABG                    | 556                       | 0.20    | 0.68 | 1.03 | 1.39 | 2.45  | 0.28    | 0.73 | 1.00 | 1.32 | 2.09  | 0.28     | 0.73 | 1.01 | 1.30 | 2.10  |
| PACEMAKER               | 112                       | 0.00    | 0.41 | 0.72 | 1.37 | 3.25  | 0.20    | 0.61 | 0.90 | 1.21 | 2.17  | 0.21     | 0.65 | 0.84 | 1.16 | 1.87  |
| CAROTID ENDARTERECTOMY  | 73                        | 0.00    | 0.00 | 0.85 | 1.33 | 2.90  | 0.00    | 0.14 | 0.74 | 1.28 | 2.43  | 0.00     | 0.42 | 0.86 | 1.38 | 2.86  |
| HIP REPLACEMENT         | 763                       | 0.00    | 0.53 | 0.94 | 1.44 | 2.77  | 0.19    | 0.67 | 0.96 | 1.31 | 2.12  | 0.26     | 0.71 | 0.94 | 1.26 | 1.91  |
| REDUCT. OF HIP FRACTURE | 276                       | 0.00    | 0.56 | 0.86 | 1.22 | 2.05  | 0.31    | 0.68 | 0.92 | 1.19 | 1.76  | 0.38     | 0.77 | 0.96 | 1.12 | 1.58  |
| PROSTATECTOMY           | 1576                      | 0.00    | 0.00 | 0.73 | 1.57 | 3.56  | 0.00    | 0.49 | 0.91 | 1.40 | 2.63  | 0.00     | 0.57 | 0.92 | 1.29 | 2.21  |
| CHOLECYSTECTOMY         | 714                       | 0.00    | 0.49 | 0.95 | 1.54 | 2.68  | 0.00    | 0.62 | 0.93 | 1.37 | 2.22  | 0.22     | 0.67 | 0.98 | 1.27 | 1.93  |
| HYSTERECTOMY            | 113                       | 0.00    | 0.00 | 0.00 | 2.00 | 6.69  | 0.00    | 0.00 | 0.76 | 1.70 | 3.59  | 0.00     | 0.24 | 0.75 | 1.27 | 2.91  |

TABLE 4  
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES  
1990 STUDY, FY1989

| CONDITIONS/PROCEDURES    | NUMBER<br>OF<br>HOSPITALS | 30 DAYS |      |      |      |       | 90 DAYS |      |      |      |       | 180 DAYS |      |      |      |       |
|--------------------------|---------------------------|---------|------|------|------|-------|---------|------|------|------|-------|----------|------|------|------|-------|
|                          |                           | -----   |      |      |      |       | -----   |      |      |      |       | -----    |      |      |      |       |
|                          |                           | 2.5%    | 25%  | 50%  | 75%  | 97.5% | 2.5%    | 25%  | 50%  | 75%  | 97.5% | 2.5%     | 25%  | 50%  | 75%  | 97.5% |
| OVERALL( < 750 CASES )   | 2746                      | 0.50    | 0.87 | 1.04 | 1.23 | 1.73  | 0.58    | 0.89 | 1.03 | 1.17 | 1.54  | 0.61     | 0.89 | 1.01 | 1.14 | 1.44  |
| OVERALL( >= 750 CASES)   | 2669                      | 0.71    | 0.90 | 1.00 | 1.09 | 1.35  | 0.79    | 0.94 | 1.01 | 1.08 | 1.28  | 0.82     | 0.95 | 1.01 | 1.07 | 1.24  |
| CONDITIONS               |                           | -----   |      |      |      |       | -----   |      |      |      |       | -----    |      |      |      |       |
| AMI                      | 1412                      | 0.53    | 0.81 | 0.96 | 1.12 | 1.47  | 0.59    | 0.86 | 1.01 | 1.15 | 1.47  | 0.63     | 0.87 | 1.00 | 1.14 | 1.43  |
| CHF                      | 2293                      | 0.47    | 0.80 | 0.97 | 1.18 | 1.69  | 0.58    | 0.86 | 1.00 | 1.14 | 1.48  | 0.66     | 0.89 | 1.02 | 1.14 | 1.40  |
| PNEUMONIA/INFLUENZA      | 2179                      | 0.45    | 0.77 | 0.97 | 1.19 | 1.67  | 0.54    | 0.85 | 1.01 | 1.18 | 1.55  | 0.60     | 0.86 | 1.02 | 1.18 | 1.51  |
| COPD                     | 324                       | 0.21    | 0.68 | 0.99 | 1.32 | 2.13  | 0.44    | 0.78 | 1.04 | 1.27 | 1.91  | 0.49     | 0.84 | 1.04 | 1.24 | 1.66  |
| TRANS. CEREBRAL ISCHEMIA | 420                       | 0.00    | 0.00 | 0.79 | 1.41 | 3.26  | 0.00    | 0.46 | 0.88 | 1.33 | 2.36  | 0.18     | 0.60 | 0.92 | 1.25 | 1.97  |
| STROKE                   | 1728                      | 0.53    | 0.80 | 0.95 | 1.12 | 1.56  | 0.62    | 0.85 | 0.97 | 1.11 | 1.46  | 0.67     | 0.88 | 0.99 | 1.13 | 1.40  |
| HIP FRACTURE             | 1126                      | 0.24    | 0.67 | 0.95 | 1.30 | 2.04  | 0.39    | 0.75 | 0.98 | 1.21 | 1.71  | 0.46     | 0.78 | 0.97 | 1.18 | 1.59  |
| SEPSIS                   | 174                       | 0.52    | 0.79 | 0.94 | 1.10 | 1.52  | 0.63    | 0.88 | 1.02 | 1.15 | 1.46  | 0.68     | 0.93 | 1.05 | 1.16 | 1.43  |
| PROCEDURES               |                           | -----   |      |      |      |       | -----   |      |      |      |       | -----    |      |      |      |       |
| ANGIOPLASTY              | 370                       | 0.00    | 0.46 | 0.84 | 1.35 | 2.55  | 0.00    | 0.55 | 0.88 | 1.33 | 2.52  | 0.00     | 0.61 | 0.94 | 1.32 | 2.44  |
| CABG                     | 501                       | 0.21    | 0.65 | 1.00 | 1.47 | 2.57  | 0.23    | 0.69 | 1.00 | 1.33 | 2.29  | 0.32     | 0.74 | 1.01 | 1.33 | 2.21  |
| PACEMAKER                | 91                        | 0.00    | 0.52 | 0.74 | 1.12 | 2.31  | 0.00    | 0.56 | 0.83 | 1.15 | 2.14  | 0.20     | 0.68 | 0.81 | 1.16 | 1.87  |
| CAROTID ENDARTERECTOMY   | 55                        | 0.00    | 0.00 | 0.82 | 1.51 | 5.01  | 0.00    | 0.47 | 0.86 | 1.31 | 4.00  | 0.00     | 0.43 | 0.85 | 1.28 | 3.12  |
| HIP REPLACEMENT          | 686                       | 0.00    | 0.52 | 0.92 | 1.44 | 2.46  | 0.00    | 0.65 | 0.94 | 1.27 | 1.95  | 0.21     | 0.67 | 0.94 | 1.19 | 1.75  |
| REDUCT. OF HIP FRACTURE  | 246                       | 0.19    | 0.57 | 0.91 | 1.23 | 1.96  | 0.31    | 0.71 | 0.96 | 1.19 | 1.74  | 0.41     | 0.78 | 0.96 | 1.13 | 1.53  |
| PROSTATECTOMY            | 1570                      | 0.00    | 0.00 | 0.67 | 1.50 | 3.46  | 0.00    | 0.47 | 0.86 | 1.36 | 2.67  | 0.00     | 0.58 | 0.93 | 1.28 | 2.15  |
| CHOLECYSTECTOMY          | 680                       | 0.00    | 0.53 | 0.94 | 1.53 | 2.90  | 0.00    | 0.62 | 0.97 | 1.36 | 2.15  | 0.22     | 0.66 | 0.95 | 1.26 | 1.98  |
| HYSTERECTOMY             | 101                       | 0.00    | 0.00 | 0.00 | 1.80 | 5.44  | 0.00    | 0.00 | 0.78 | 1.60 | 4.21  | 0.00     | 0.00 | 0.91 | 1.38 | 2.99  |



TABLE 4  
SMR DISTRIBUTION FOR HOSPITALS WITH GREATER THAN 50 CASES  
1990 STUDY, FY1988

| CONDITIONS/PROCEDURES    | NUMBER<br>OF<br>HOSPITALS | 30 DAYS |       |       |       |       | 90 DAYS |       |       |       |       | 180 DAYS |       |       |       |       |
|--------------------------|---------------------------|---------|-------|-------|-------|-------|---------|-------|-------|-------|-------|----------|-------|-------|-------|-------|
|                          |                           | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%    | 25%   | 50%   | 75%   | 97.5% | 2.5%     | 25%   | 50%   | 75%   | 97.5% |
|                          |                           | -----   | ----- | ----- | ----- | ----- | -----   | ----- | ----- | ----- | ----- | -----    | ----- | ----- | ----- | ----- |
| OVERALL( < 750 CASES )   | 2838                      | 0.46    | 0.89  | 1.05  | 1.23  | 1.75  | 0.54    | 0.90  | 1.03  | 1.16  | 1.57  | 0.59     | 0.90  | 1.02  | 1.14  | 1.45  |
| OVERALL( >= 750 CASES)   | 2693                      | 0.73    | 0.90  | 1.00  | 1.10  | 1.35  | 0.79    | 0.94  | 1.01  | 1.09  | 1.27  | 0.82     | 0.95  | 1.01  | 1.08  | 1.24  |
| CONDITIONS               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| AMI                      | 1414                      | 0.56    | 0.82  | 0.96  | 1.12  | 1.41  | 0.63    | 0.87  | 1.01  | 1.14  | 1.42  | 0.65     | 0.89  | 1.00  | 1.13  | 1.39  |
| CHF                      | 2246                      | 0.45    | 0.79  | 0.97  | 1.18  | 1.61  | 0.60    | 0.86  | 1.00  | 1.14  | 1.43  | 0.68     | 0.90  | 1.02  | 1.13  | 1.37  |
| PNEUMONIA/INFLUENZA      | 2069                      | 0.44    | 0.79  | 0.97  | 1.17  | 1.68  | 0.57    | 0.85  | 1.01  | 1.17  | 1.59  | 0.61     | 0.87  | 1.01  | 1.16  | 1.53  |
| COPD                     | 310                       | 0.21    | 0.67  | 0.92  | 1.30  | 2.17  | 0.39    | 0.79  | 0.98  | 1.20  | 1.81  | 0.51     | 0.82  | 0.99  | 1.19  | 1.59  |
| TRANS. CEREBRAL ISCHEMIA | 495                       | 0.00    | 0.00  | 0.84  | 1.48  | 2.94  | 0.00    | 0.48  | 0.92  | 1.39  | 2.28  | 0.21     | 0.60  | 0.92  | 1.27  | 1.92  |
| STROKE                   | 1726                      | 0.51    | 0.79  | 0.95  | 1.12  | 1.56  | 0.60    | 0.84  | 0.98  | 1.13  | 1.44  | 0.64     | 0.88  | 1.00  | 1.13  | 1.42  |
| HIP FRACTURE             | 1119                      | 0.24    | 0.65  | 0.96  | 1.27  | 2.07  | 0.40    | 0.78  | 0.98  | 1.21  | 1.77  | 0.47     | 0.80  | 0.98  | 1.17  | 1.64  |
| SEPSIS                   | 133                       | 0.58    | 0.77  | 0.92  | 1.08  | 1.64  | 0.56    | 0.86  | 1.00  | 1.13  | 1.54  | 0.67     | 0.88  | 1.02  | 1.14  | 1.53  |
| PROCEDURES               |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| -----                    |                           |         |       |       |       |       |         |       |       |       |       |          |       |       |       |       |
| ANGIOPLASTY              | 297                       | 0.00    | 0.50  | 0.87  | 1.35  | 2.60  | 0.00    | 0.59  | 0.91  | 1.34  | 2.50  | 0.00     | 0.65  | 0.95  | 1.31  | 2.25  |
| CABG                     | 478                       | 0.21    | 0.68  | 0.98  | 1.39  | 2.40  | 0.32    | 0.73  | 1.00  | 1.36  | 2.12  | 0.38     | 0.75  | 1.01  | 1.31  | 2.04  |
| PACEMAKER                | 83                        | 0.00    | 0.34  | 0.65  | 1.04  | 1.75  | 0.01    | 0.54  | 0.85  | 1.03  | 1.70  | 0.23     | 0.69  | 0.87  | 1.10  | 1.57  |
| CAROTID ENDARTERECTOMY   | 69                        | 0.00    | 0.00  | 0.60  | 1.23  | 3.30  | 0.00    | 0.33  | 0.62  | 1.09  | 2.50  | 0.00     | 0.44  | 0.68  | 1.16  | 1.87  |
| HIP REPLACEMENT          | 670                       | 0.00    | 0.49  | 0.95  | 1.40  | 2.65  | 0.00    | 0.66  | 1.01  | 1.31  | 2.15  | 0.24     | 0.70  | 0.96  | 1.24  | 1.87  |
| REDUCT. OF HIP FRACTURE  | 259                       | 0.00    | 0.61  | 0.91  | 1.26  | 2.16  | 0.38    | 0.74  | 0.96  | 1.21  | 1.94  | 0.44     | 0.77  | 0.96  | 1.16  | 1.79  |
| PROSTATECTOMY            | 1619                      | 0.00    | 0.00  | 0.78  | 1.53  | 3.69  | 0.00    | 0.54  | 0.92  | 1.39  | 2.57  | 0.00     | 0.61  | 0.93  | 1.30  | 2.21  |
| CHOLECYSTECTOMY          | 642                       | 0.00    | 0.50  | 0.96  | 1.44  | 3.04  | 0.00    | 0.61  | 0.96  | 1.36  | 2.26  | 0.25     | 0.66  | 0.96  | 1.27  | 2.01  |
| HYSTERECTOMY             | 90                        | 0.00    | 0.00  | 0.00  | 1.57  | 5.00  | 0.00    | 0.00  | 0.68  | 1.43  | 2.83  | 0.00     | 0.28  | 0.67  | 1.15  | 2.88  |

**TABLE 5: MULTIPLICATIVE FACTORS FOR THE CALCULATION OF THE BOUNDS FOR PREDICTION INTERVALS**

(n is the number of cases at your hospital and p is the predicted mortality rate)

| p | n    | 99% Prediction Interval |      |      |      |      | 95% Prediction Interval |      |      |      |      | 75% Prediction Interval |      |      |      |      |
|---|------|-------------------------|------|------|------|------|-------------------------|------|------|------|------|-------------------------|------|------|------|------|
|   |      | Factor for Upper Bound  |      |      |      |      | Factor for Upper Bound  |      |      |      |      | Factor for Upper Bound  |      |      |      |      |
|   |      | 1%                      | 5%   | 10%  | 20%  | 40%  | 1%                      | 5%   | 10%  | 20%  | 40%  | 1%                      | 5%   | 10%  | 20%  | 40%  |
|   | 25   | 2.95                    | 2.73 | 2.68 | 2.63 | 2.59 | 2.15                    | 2.04 | 2.01 | 1.99 | 1.97 | 1.17                    | 1.16 | 1.16 | 1.15 | 1.15 |
|   | 50   | 2.76                    | 2.65 | 2.63 | 2.60 | 2.58 | 2.05                    | 2.00 | 1.99 | 1.97 | 1.96 | 1.16                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 75   | 2.70                    | 2.63 | 2.61 | 2.59 | 2.58 | 2.02                    | 1.99 | 1.98 | 1.97 | 1.96 | 1.16                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 100  | 2.67                    | 2.61 | 2.60 | 2.59 | 2.58 | 2.01                    | 1.98 | 1.97 | 1.97 | 1.96 | 1.16                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 150  | 2.64                    | 2.60 | 2.59 | 2.59 | 2.58 | 1.99                    | 1.97 | 1.97 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 200  | 2.62                    | 2.60 | 2.59 | 2.58 | 2.58 | 1.98                    | 1.97 | 1.97 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 300  | 2.61                    | 2.59 | 2.58 | 2.58 | 2.58 | 1.98                    | 1.97 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 400  | 2.60                    | 2.59 | 2.58 | 2.58 | 2.58 | 1.97                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 500  | 2.59                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.97                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 750  | 2.59                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.97                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 1000 | 2.59                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.96                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 2000 | 2.58                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.96                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |
|   | 5000 | 2.58                    | 2.58 | 2.58 | 2.58 | 2.58 | 1.96                    | 1.96 | 1.96 | 1.96 | 1.96 | 1.15                    | 1.15 | 1.15 | 1.15 | 1.15 |

| p | n    | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       |
|---|------|------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|------------------------|-------|-------|-------|-------|
|   |      | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       | Factor for Lower Bound |       |       |       |       |
|   |      | 1%                     | 5%    | 10%   | 20%   | 40%   | 1%                     | 5%    | 10%   | 20%   | 40%   | 1%                     | 5%    | 10%   | 20%   | 40%   |
|   | 25   | -2.21                  | -2.42 | -2.48 | -2.52 | -2.56 | -1.77                  | -1.88 | -1.91 | -1.93 | -1.95 | -1.13                  | -1.14 | -1.14 | -1.15 | -1.15 |
|   | 50   | -2.39                  | -2.50 | -2.53 | -2.55 | -2.57 | -1.87                  | -1.92 | -1.93 | -1.95 | -1.96 | -1.14                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 75   | -2.45                  | -2.52 | -2.54 | -2.56 | -2.57 | -1.90                  | -1.93 | -1.94 | -1.95 | -1.96 | -1.14                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 100  | -2.48                  | -2.54 | -2.55 | -2.56 | -2.57 | -1.91                  | -1.94 | -1.95 | -1.95 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 150  | -2.51                  | -2.55 | -2.56 | -2.57 | -2.57 | -1.93                  | -1.95 | -1.95 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 200  | -2.53                  | -2.56 | -2.56 | -2.57 | -2.57 | -1.94                  | -1.95 | -1.95 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 300  | -2.54                  | -2.56 | -2.57 | -2.57 | -2.57 | -1.94                  | -1.95 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 400  | -2.55                  | -2.57 | -2.57 | -2.57 | -2.57 | -1.95                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 500  | -2.56                  | -2.57 | -2.57 | -2.57 | -2.57 | -1.95                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 750  | -2.56                  | -2.57 | -2.57 | -2.57 | -2.58 | -1.95                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 1000 | -2.57                  | -2.57 | -2.57 | -2.57 | -2.58 | -1.96                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 2000 | -2.57                  | -2.57 | -2.57 | -2.58 | -2.58 | -1.96                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |
|   | 5000 | -2.57                  | -2.58 | -2.58 | -2.58 | -2.58 | -1.96                  | -1.96 | -1.96 | -1.96 | -1.96 | -1.15                  | -1.15 | -1.15 | -1.15 | -1.15 |

# **Medicare Hospital Information**



# ADAIR COUNTY MEMORIAL HOSPITAL

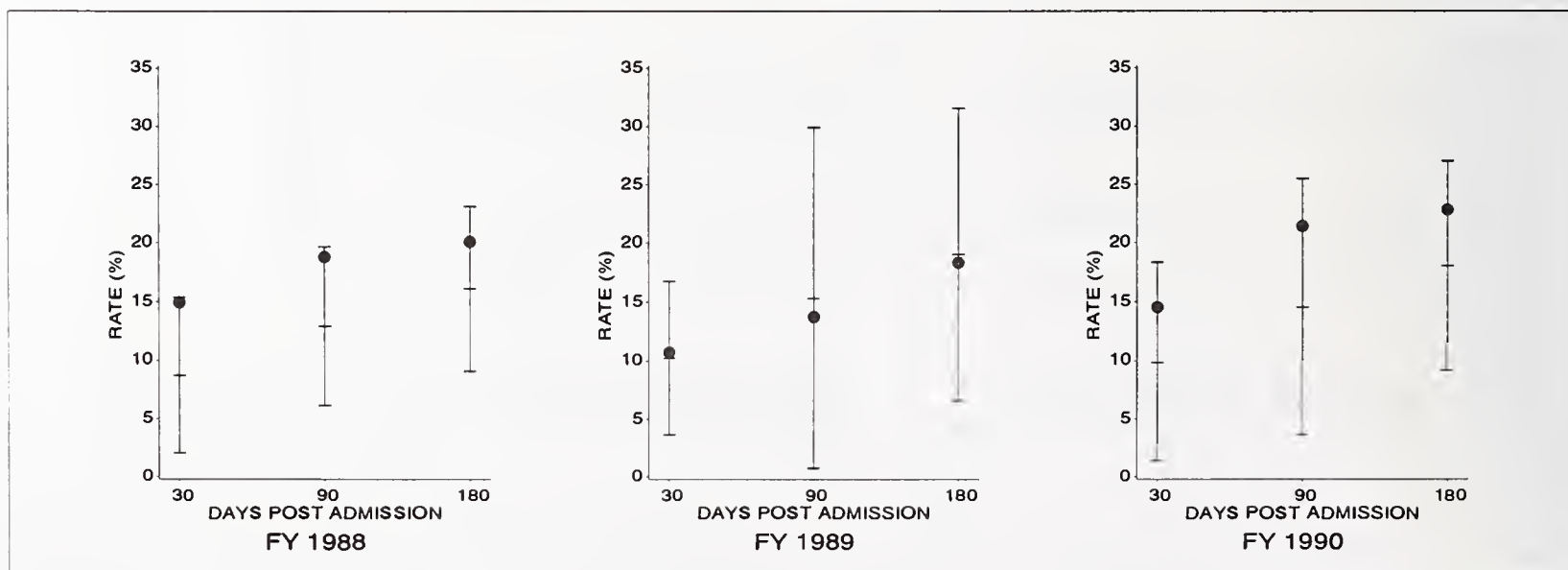
609 SE KENT  
GREENFIELD, IA 50849  
Medicare Provider Number: 160070

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 145                | 14.5                | 9.8  | 4.3   | 21.4    | 14.5 | 5.5   | 22.8     | 18.0 | 4.5   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1                  | 100.0               | 47.0 | ----- | 100.0   | 50.7 | ----- | 100.0    | 55.3 | ----- |
| Congestive Heart Failure.....              | 10                 | 30.0                | 16.3 | ----- | 50.0    | 25.2 | ----- | 50.0     | 31.6 | ----- |
| Pneumonia/Influenza.....                   | 22                 | 31.8                | 19.0 | ----- | 36.4    | 26.0 | ----- | 40.9     | 31.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1                  | 0.0                 | 2.1  | ----- | 0.0     | 4.2  | ----- | 0.0      | 6.7  | ----- |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 3                  | 33.3                | 29.3 | ----- | 66.7    | 34.9 | ----- | 66.7     | 38.7 | ----- |
| Hip Fracture.....                          | 3                  | 33.3                | 8.1  | ----- | 33.3    | 13.4 | ----- | 33.3     | 16.5 | ----- |
| Sepsis.....                                | 2                  | 0.0                 | 47.5 | ----- | 0.0     | 54.0 | ----- | 0.0      | 56.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2                  | 0.0                 | 7.0  | ----- | 0.0     | 12.4 | ----- | 0.0      | 15.4 | ----- |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 4                  | 0.0                 | 1.0  | ----- | 0.0     | 1.8  | ----- | 0.0      | 2.4  | ----- |
| Hysterectomy.....                          | 3                  | 0.0                 | 0.4  | ----- | 0.0     | 1.2  | ----- | 0.0      | 2.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ADAIR COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160070

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.0 years  
Proportion female..... 53.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 62.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.7 %  
Admitted for emergency..... 9.7 %

### COMORBIDITIES:

Cancer..... 5.5 %  
Chronic cardiovascular disease..... 42.1 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 6.9 %  
Chronic pulmonary disease..... 16.6 %  
Cerebrovascular degeneration..... 0.7 %  
Diabetes mellitus..... 17.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 80.8%  
State..... 18.2%  
Outside State..... 1.0%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.6 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 31  
Occupancy Rate..... 19.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 49.2 %  
Case Mix Index (CMI)..... 1.0174

### STAFFING:

Total Number of Physicians..... 37  
Percent of Physicians Board  
Certified Specialists..... (Not Available)  
Medical Residents/Interns..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses..... 4

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ALLEN MEMORIAL HOSPITAL

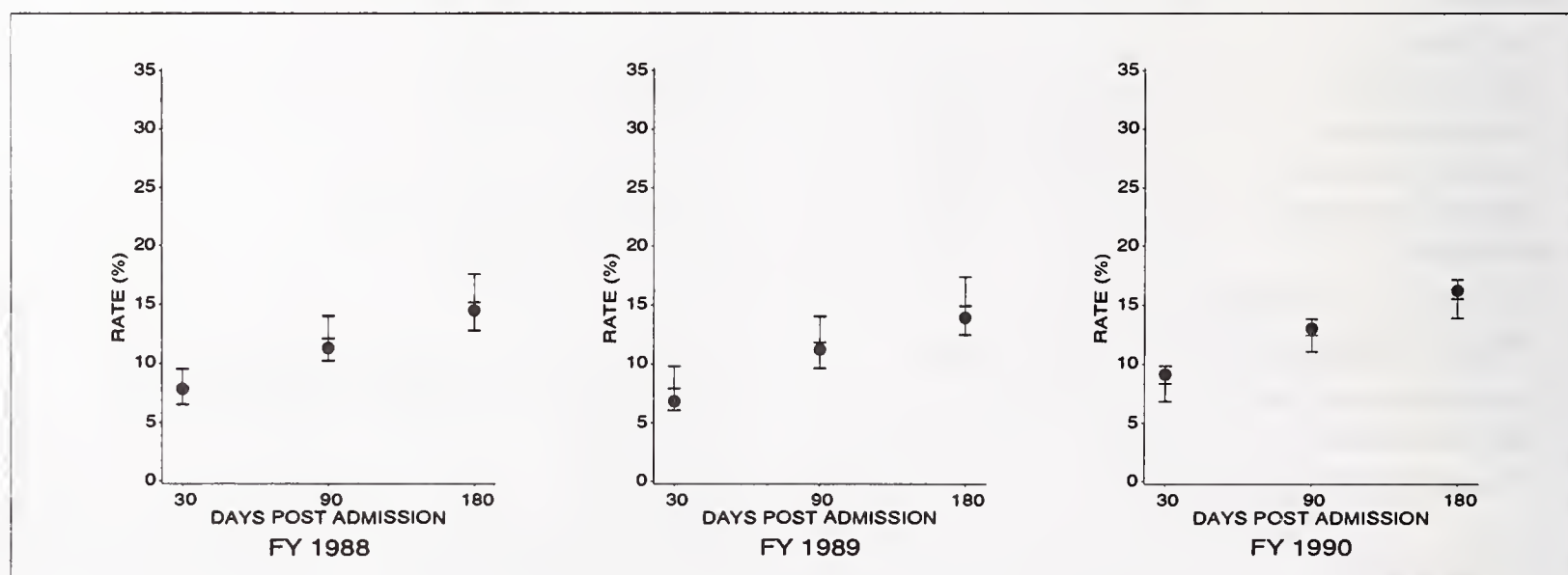
1825 LOGAN AVE  
WATERLOO, IA 50703  
Medicare Provider Number: 160110

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2550            | 9.1                 | 8.3  | 0.8   | 13.0    | 12.4 | 0.7   | 16.2     | 15.5 | 0.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 139             | 27.3                | 22.8 | 6.7   | 31.7    | 25.9 | 6.7   | 33.8     | 28.5 | 6.7   |
| Congestive Heart Failure.....              | 166             | 16.3                | 14.8 | 5.3   | 25.9    | 23.7 | 5.1   | 32.5     | 30.0 | 5.5   |
| Pneumonia/Influenza.....                   | 105             | 16.2                | 15.1 | 3.5   | 21.9    | 21.3 | 4.0   | 31.4     | 25.4 | 5.3   |
| Chronic Obstructive Pulmonary Disease..... | 33              | 3.0                 | 4.7  | ----- | 6.1     | 8.3  | ----- | 12.1     | 11.6 | ----- |
| Transient Cerebral Ischemia.....           | 45              | 0.0                 | 1.7  | ----- | 0.0     | 4.0  | ----- | 4.4      | 6.4  | ----- |
| Stroke.....                                | 109             | 23.9                | 18.8 | 6.5   | 29.4    | 24.1 | 5.9   | 31.2     | 27.7 | 5.5   |
| Hip Fracture.....                          | 74              | 9.5                 | 6.2  | 4.9   | 13.5    | 10.9 | 4.5   | 14.9     | 14.5 | 4.7   |
| Sepsis.....                                | 19              | 21.1                | 26.4 | ----- | 31.6    | 34.6 | ----- | 36.8     | 38.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 45              | 2.2                 | 3.1  | ----- | 2.2     | 3.9  | ----- | 2.2      | 4.7  | ----- |
| Coronary Artery Bypass Graft.....          | 72              | 6.9                 | 5.9  | 3.0   | 8.3     | 8.3  | 3.4   | 9.7      | 9.4  | 3.8   |
| Initial Pacemaker Insertion.....           | 30              | 0.0                 | 2.5  | ----- | 0.0     | 5.2  | ----- | 3.3      | 7.9  | ----- |
| Carotid Endarterectomy.....                | 5               | 0.0                 | 1.2  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.5  | ----- |
| Hip Replacement/Reconstruction.....        | 66              | 6.1                 | 2.2  | 2.2   | 7.6     | 3.9  | 2.6   | 9.1      | 5.5  | 3.0   |
| Open Reduction of Hip Fracture.....        | 31              | 6.5                 | 5.3  | ----- | 9.7     | 9.8  | ----- | 9.7      | 13.2 | ----- |
| Prostatectomy.....                         | 120             | 1.7                 | 0.9  | 1.4   | 2.5     | 2.1  | 1.5   | 3.3      | 3.5  | 1.7   |
| Cholecystectomy.....                       | 61              | 6.6                 | 2.8  | 3.5   | 8.2     | 5.2  | 4.6   | 9.8      | 7.0  | 5.1   |
| Hysterectomy.....                          | 21              | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# ALLEN MEMORIAL HOSPITAL

Medicare Provider Number: 160110

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.8 years  
Proportion female..... 53.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 60.4 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 5.7 %  
Admitted for emergency..... 6.0 %

### COMORBIDITIES:

Cancer..... 5.9 %  
Chronic cardiovascular disease..... 40.9 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 17.1 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 8.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 55.3%  
State ..... 43.5%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 221  
Occupancy Rate ..... 76.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 51.6 %  
Case Mix Index (CMI) ..... 1.4746

### STAFFING:

Total Number of Physicians..... 84  
Percent of Physicians Board  
Certified Specialists..... 78.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 258  
Licensed Practical Nurses ..... 39

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ANAMOSA COMMUNITY HOSPITAL

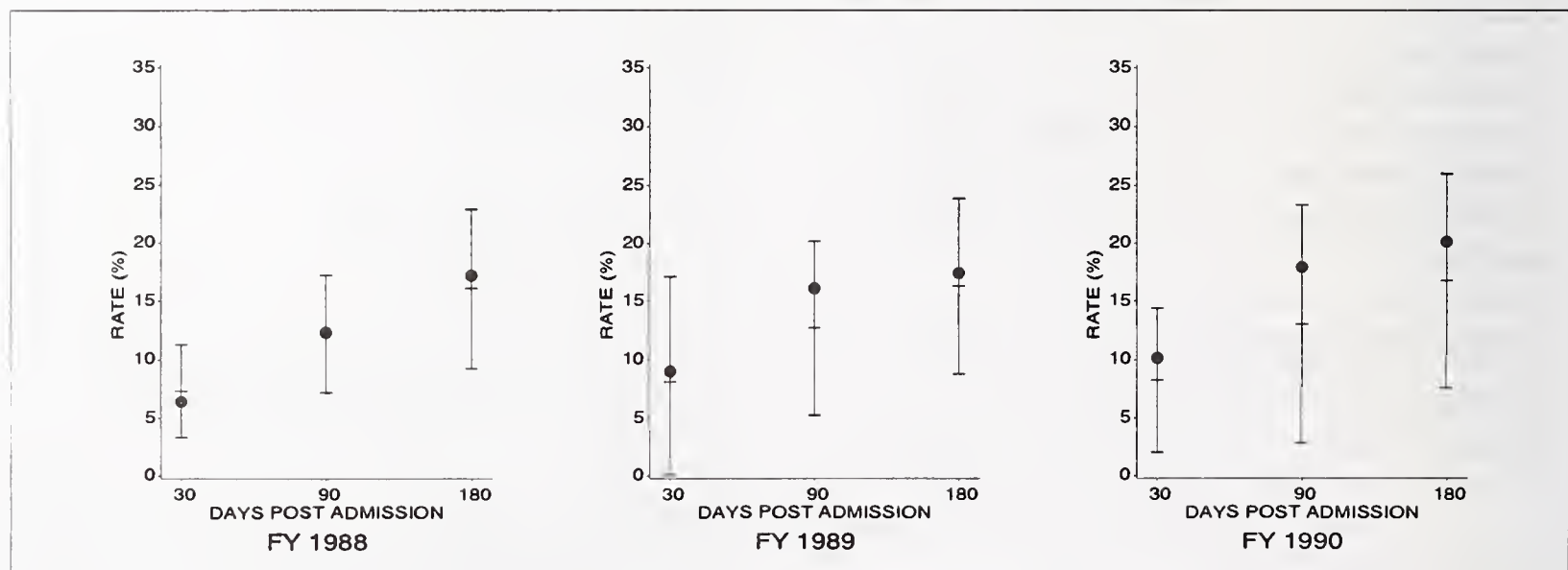
104 BROADWAY PLACE  
ANAMOSA, IA 52205  
Medicare Provider Number: 160103

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 179             | 10.1                | 8.2  | 3.1   | 17.9    | 13.0 | 5.1   | 20.1     | 16.7 | 4.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 4               | 0.0                 | 17.7 | ----- | 0.0     | 20.0 | ----- | 0.0      | 22.2 | ----- |
| Congestive Heart Failure.....              | 16              | 18.8                | 14.4 | ----- | 31.3    | 22.4 | ----- | 37.5     | 28.6 | ----- |
| Pneumonia/Influenza.....                   | 23              | 13.0                | 11.8 | ----- | 13.0    | 15.8 | ----- | 13.0     | 19.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 7               | 14.3                | 3.7  | ----- | 14.3    | 7.3  | ----- | 14.3     | 10.1 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 1.3  | ----- | 0.0     | 2.8  | ----- | 0.0      | 4.5  | ----- |
| Stroke.....                                | 10              | 30.0                | 18.3 | ----- | 50.0    | 27.3 | ----- | 50.0     | 33.2 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 0.0                 | 42.9 | ----- | 0.0     | 49.4 | ----- | 0.0      | 54.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ANAMOSA COMMUNITY HOSPITAL

Medicare Provider Number: 160103

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.5 years  
Proportion female..... 61.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.3 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 40.2 %  
Admitted for emergency..... 58.7 %

### COMORBIDITIES:

Cancer..... 4.5 %  
Chronic cardiovascular disease..... 55.9 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 33.5 %  
Cerebrovascular degeneration..... 3.4 %  
Diabetes mellitus..... 15.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 87.0%  
State ..... 11.8%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 38  
Occupancy Rate ..... 21.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.8 %  
Case Mix Index (CMI) ..... 0.9491

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# AUDUBON COUNTY MEMORIAL HOSPITAL

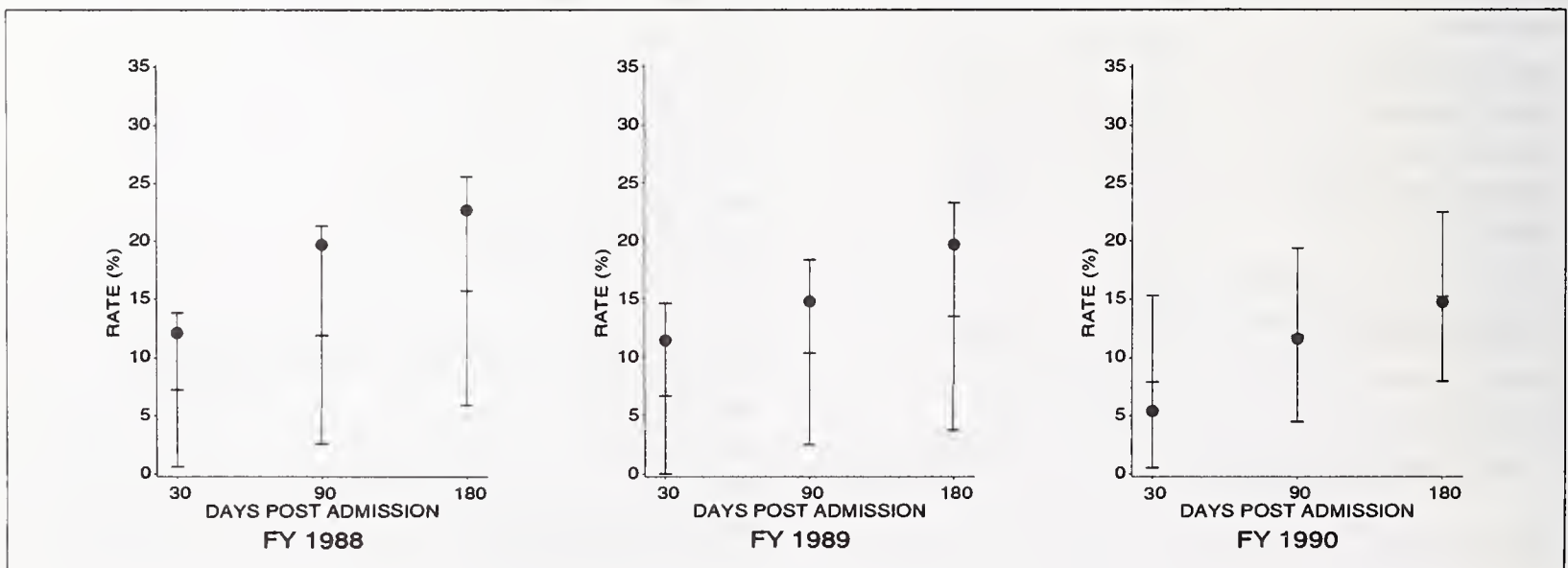
515 PACIFIC  
AUDUBON, IA 50025  
Medicare Provider Number: 160098

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 129             | 5.4                 | 7.9  | 3.7   | 11.6    | 11.9 | 3.7   | 14.7     | 15.2 | 3.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 3               | 0.0                 | 25.0 | ----- | 0.0     | 29.1 | ----- | 0.0      | 32.8 | ----- |
| Congestive Heart Failure.....              | 9               | 11.1                | 12.9 | ----- | 22.2    | 19.5 | ----- | 33.3     | 25.8 | ----- |
| Pneumonia/Influenza.....                   | 14              | 14.3                | 11.5 | ----- | 14.3    | 15.4 | ----- | 14.3     | 18.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0               |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 1.1  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.5  | ----- |
| Stroke.....                                | 8               | 12.5                | 21.5 | ----- | 25.0    | 29.0 | ----- | 25.0     | 33.5 | ----- |
| Hip Fracture.....                          | 3               | 0.0                 | 10.7 | ----- | 0.0     | 19.3 | ----- | 33.3     | 25.0 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 12.8 | ----- | 0.0     | 23.3 | ----- | 0.0      | 29.9 | ----- |
| Prostatectomy.....                         | 6               | 0.0                 | 0.8  | ----- | 0.0     | 1.9  | ----- | 0.0      | 3.3  | ----- |
| Cholecystectomy.....                       | 3               | 0.0                 | 1.0  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.3  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.4  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# AUDUBON COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160098

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 51.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 80.6 %  
Transferred from skilled nursing facility..... 0.8 %  
Admitted for elective procedure..... 64.3 %  
Admitted for emergency..... 0.8 %

### COMORBIDITIES:

Cancer..... 4.7 %  
Chronic cardiovascular disease..... 47.3 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 2.3 %  
Chronic pulmonary disease..... 15.5 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 5.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 94.3%  
State..... 4.0%  
Outside State..... 1.7%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.3 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 29  
Occupancy Rate..... 20.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 55.3 %  
Case Mix Index (CMI)..... 1.0210

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists.....(Not Available)  
Medical Residents/Interns..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses..... 4

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# BAUM HARMON MEMORIAL HOSPITAL

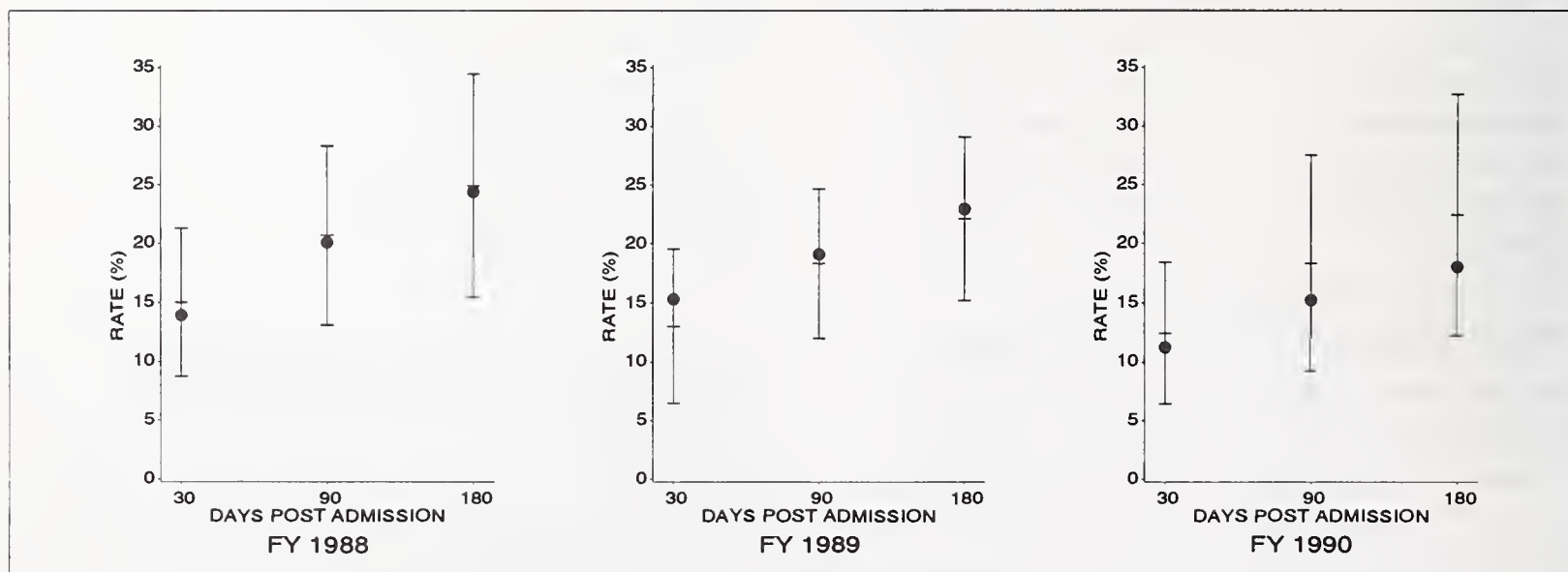
361 13TH STREET  
PRIMGHAR, IA 51245  
Medicare Provider Number: 160151

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 178             | 11.2                | 12.4 | 3.0   | 15.2    | 18.3 | 4.6   | 18.0     | 22.4 | 5.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 20.0                | 32.6 | ----- | 20.0    | 35.5 | ----- | 20.0     | 37.9 | ----- |
| Congestive Heart Failure.....              | 17              | 0.0                 | 15.5 | ----- | 5.9     | 24.1 | ----- | 11.8     | 30.6 | ----- |
| Pneumonia/Influenza.....                   | 13              | 0.0                 | 13.7 | ----- | 0.0     | 19.2 | ----- | 0.0      | 22.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 50.0                | 11.2 | ----- | 50.0    | 18.9 | ----- | 50.0     | 24.3 | ----- |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 13              | 30.8                | 25.3 | ----- | 46.2    | 35.3 | ----- | 53.8     | 40.3 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 7               | 28.6                | 25.1 | ----- | 28.6    | 31.3 | ----- | 28.6     | 36.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 5               | 20.0                | 3.1  | ----- | 20.0    | 5.3  | ----- | 20.0     | 6.4  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# BAUM HARMON MEMORIAL HOSPITAL

Medicare Provider Number: 160151

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.9 years  
Proportion female..... 57.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 54.5 %  
Transferred from skilled nursing facility..... 2.8 %  
Admitted for elective procedure..... 1.1 %  
Admitted for emergency..... 92.1 %

### COMORBIDITIES:

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 38.2 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.7 %  
Chronic pulmonary disease..... 15.7 %  
Cerebrovascular degeneration..... 7.9 %  
Diabetes mellitus..... 4.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 92.3%  
State ..... 6.9%  
Outside State ..... 0.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 19  
Occupancy Rate ..... 42.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 45.5 %  
Case Mix Index (CMI) ..... 1.1144

### STAFFING:

Total Number of Physicians..... 10  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 13  
Licensed Practical Nurses ..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# BELMOND COMMUNITY HOSPITAL

403 1ST ST SE  
BELMOND, IA 50421  
Medicare Provider Number: 160007

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 83                 | 7.2                 | 9.1  | 3.6   | 13.3    | 13.6 | 4.2   | 13.3     | 17.1 | 5.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 3                  | 0.0                 | 39.9 | ----- | 0.0     | 44.2 | ----- | 0.0      | 48.1 | ----- |
| Congestive Heart Failure.....              | 7                  | 0.0                 | 10.7 | ----- | 0.0     | 17.5 | ----- | 0.0      | 23.2 | ----- |
| Pneumonia/Influenza.....                   | 15                 | 0.0                 | 8.6  | ----- | 0.0     | 12.2 | ----- | 0.0      | 14.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1                  | 0.0                 | 6.1  | ----- | 0.0     | 11.0 | ----- | 0.0      | 14.7 | ----- |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 3                  | 33.3                | 17.5 | ----- | 66.7    | 22.8 | ----- | 66.7     | 26.8 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 1                  | 0.0                 | 0.7  | ----- | 0.0     | 1.3  | ----- | 0.0      | 1.9  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

# BELMOND COMMUNITY HOSPITAL

Medicare Provider Number: 160007

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.9 years  
Proportion female..... 51.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 96.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 10.8 %

### COMORBIDITIES:

Cancer..... 4.8 %  
Chronic cardiovascular disease..... 41.0 %  
Chronic liver disease..... 1.2 %  
Chronic renal disease..... 0.0 %  
Chronic pulmonary disease..... 13.3 %  
Cerebrovascular degeneration..... 2.4 %  
Diabetes mellitus..... 7.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 71.6%  
State ..... 26.6%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 21  
Occupancy Rate ..... 28.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 53.7 %  
Case Mix Index (CMI) ..... 1.0336

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# BOONE COUNTY HOSPITAL

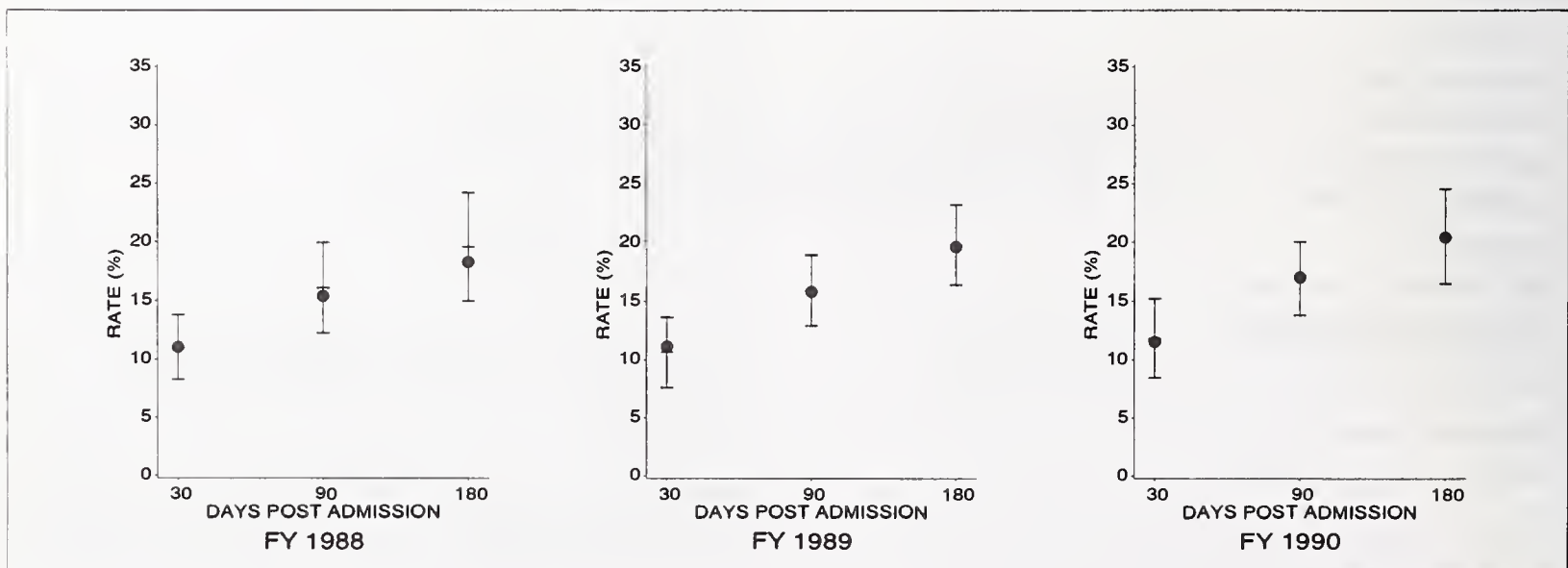
1015 UNION STREET  
BOONE, IA 50036  
Medicare Provider Number: 160026

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 628             | 11.5                | 11.8 | 1.7   | 17.0    | 16.9 | 1.6   | 20.4     | 20.5 | 2.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 26              | 38.5                | 39.5 | ----- | 46.2    | 43.6 | ----- | 50.0     | 47.0 | ----- |
| Congestive Heart Failure.....              | 56              | 21.4                | 15.8 | 10.0  | 28.6    | 24.3 | 7.3   | 33.9     | 30.4 | 7.3   |
| Pneumonia/Influenza.....                   | 37              | 27.0                | 19.8 | ----- | 35.1    | 26.7 | ----- | 37.8     | 30.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 12              | 0.0                 | 12.2 | ----- | 16.7    | 19.3 | ----- | 16.7     | 24.5 | ----- |
| Transient Cerebral Ischemia.....           | 11              | 0.0                 | 2.7  | ----- | 0.0     | 6.1  | ----- | 0.0      | 9.9  | ----- |
| Stroke.....                                | 37              | 24.3                | 22.4 | ----- | 29.7    | 28.5 | ----- | 35.1     | 32.3 | ----- |
| Hip Fracture.....                          | 20              | 0.0                 | 6.4  | ----- | 10.0    | 11.7 | ----- | 10.0     | 15.3 | ----- |
| Sepsis.....                                | 14              | 28.6                | 35.5 | ----- | 35.7    | 44.9 | ----- | 35.7     | 50.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 0.9  | ----- | 0.0     | 1.9  | ----- | 0.0      | 3.0  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1               | 0.0                 | 2.2  | ----- | 0.0     | 4.2  | ----- | 0.0      | 6.3  | ----- |
| Open Reduction of Hip Fracture.....        | 10              | 0.0                 | 4.5  | ----- | 20.0    | 8.8  | ----- | 20.0     | 12.0 | ----- |
| Prostatectomy.....                         | 11              | 0.0                 | 1.0  | ----- | 0.0     | 2.3  | ----- | 0.0      | 4.0  | ----- |
| Cholecystectomy.....                       | 10              | 10.0                | 2.7  | ----- | 10.0    | 5.9  | ----- | 10.0     | 8.9  | ----- |
| Hysterectomy.....                          | 5               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 20.0     | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BOONE COUNTY HOSPITAL

Medicare Provider Number: 160026

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

|                               |            |
|-------------------------------|------------|
| Average age at admission..... | 79.3 years |
| Proportion female.....        | 65.8 %     |

### ADMISSION SOURCES/TYPES:

|                                                |        |
|------------------------------------------------|--------|
| Referred by personal or HMO physician.....     | 30.1 % |
| Transferred from skilled nursing facility..... | 1.8 %  |
| Admitted for elective procedure.....           | 7.2 %  |
| Admitted for emergency.....                    | 59.4 % |

### COMORBIDITIES:

|                                     |        |
|-------------------------------------|--------|
| Cancer.....                         | 5.1 %  |
| Chronic cardiovascular disease..... | 44.3 % |
| Chronic liver disease.....          | 0.2 %  |
| Chronic renal disease.....          | 4.6 %  |
| Chronic pulmonary disease.....      | 14.6 % |
| Cerebrovascular degeneration.....   | 4.9 %  |
| Diabetes mellitus.....              | 8.4 %  |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

|                    |        |
|--------------------|--------|
| County/City.....   | 86.2%  |
| State.....         | 12.0%  |
| Outside State..... | 1.8%   |
| Total.....         | 100.0% |

### MEDICARE AVERAGE LENGTH OF STAY:

|               |          |
|---------------|----------|
| Hospital..... | 5.5 Days |
| State.....    | 7.6 Days |
| National..... | 8.6 Days |

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

|                           |                  |
|---------------------------|------------------|
| Total Beds.....           | 57               |
| Occupancy Rate.....       | 54.0 %           |
| Ownership/Control.....    | Local Government |
| Medicare Discharges.....  | 63.0 %           |
| Case Mix Index (CMI)..... | 1.0704           |

### STAFFING:

|                                                           |        |
|-----------------------------------------------------------|--------|
| Total Number of Physicians.....                           | 14     |
| Percent of Physicians Board<br>Certified Specialists..... | 64.3 % |
| Medical Residents/Interns.....                            | 0      |
| Registered Nurses.....                                    | 61     |
| Licensed Practical Nurses.....                            | 8      |

### SPECIALTY SERVICES:

|                                      |     |
|--------------------------------------|-----|
| Burn Unit.....                       | No  |
| Cardiac Intensive Care.....          | No  |
| Comprehensive Geriatric.....         | No  |
| Hospice Care.....                    | No  |
| Medical/Surgical Intensive Care..... | Yes |
| Organ/Tissue Transplant.....         | No  |
| Other Intensive Care.....            | No  |
| Trauma Center.....                   | No  |

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

|                          |     |
|--------------------------|-----|
| Alcohol/Drug.....        | No  |
| Rehabilitation.....      | No  |
| Psychiatric.....         | No  |
| Medicare Swing Beds..... | Yes |

\*\* Except for CMI

\* Not used in calculating mortality rates

# BROADLAWNS MEDICAL CENTER

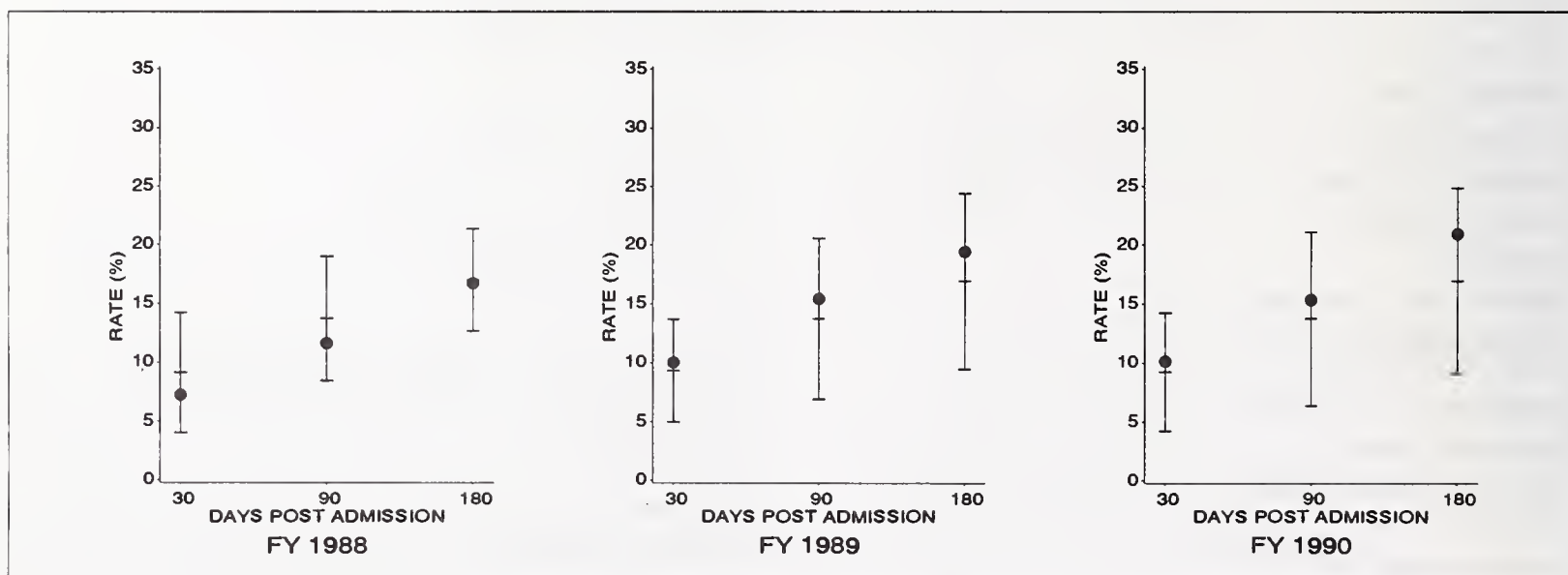
18TH ST & HICKMAN RD  
DES MOINES, IA 50314  
Medicare Provider Number: 160101

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 268             | 10.1                | 9.2  | 2.5   | 15.3    | 13.7 | 3.7   | 20.9     | 16.9 | 4.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 9               | 0.0                 | 26.3 | ----- | 11.1    | 29.4 | ----- | 11.1     | 32.7 | ----- |
| Congestive Heart Failure.....              | 13              | 7.7                 | 13.2 | ----- | 7.7     | 21.9 | ----- | 23.1     | 28.1 | ----- |
| Pneumonia/Influenza.....                   | 17              | 5.9                 | 7.6  | ----- | 11.8    | 10.9 | ----- | 11.8     | 13.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 14              | 14.3                | 8.1  | ----- | 21.4    | 13.5 | ----- | 35.7     | 17.5 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.4  | ----- | 0.0     | 3.3  | ----- | 0.0      | 5.7  | ----- |
| Stroke.....                                | 8               | 0.0                 | 16.2 | ----- | 0.0     | 20.9 | ----- | 12.5     | 23.7 | ----- |
| Hip Fracture.....                          | 2               | 0.0                 | 3.8  | ----- | 0.0     | 6.1  | ----- | 0.0      | 7.6  | ----- |
| Sepsis.....                                | 3               | 0.0                 | 6.6  | ----- | 0.0     | 9.0  | ----- | 0.0      | 11.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 3.4  | ----- | 0.0     | 5.7  | ----- | 0.0      | 7.2  | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 5               | 20.0                | 1.3  | ----- | 20.0    | 2.4  | ----- | 20.0     | 3.0  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.0  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# BROADLAWNS MEDICAL CENTER

Medicare Provider Number: 160101

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 67.2 years  
Proportion female..... 54.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 15.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 15.3 %  
Admitted for emergency..... 7.8 %

### COMORBIDITIES:

Cancer..... 6.7 %  
Chronic cardiovascular disease..... 35.8 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 1.9 %  
Chronic pulmonary disease..... 27.6 %  
Cerebrovascular degeneration..... 10.1 %  
Diabetes mellitus..... 12.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 93.9%  
State ..... 2.4%  
Outside State ..... 3.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 214  
Occupancy Rate ..... 59.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 15.7 %  
Case Mix Index (CMI) ..... 1.1766

### STAFFING:

Total Number of Physicians..... 95  
Percent of Physicians Board  
Certified Specialists..... 90.5 %  
Medical Residents/Interns ..... 26  
Registered Nurses..... 99  
Licensed Practical Nurses ..... 20

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# BUENA VISTA COUNTY HOSPITAL

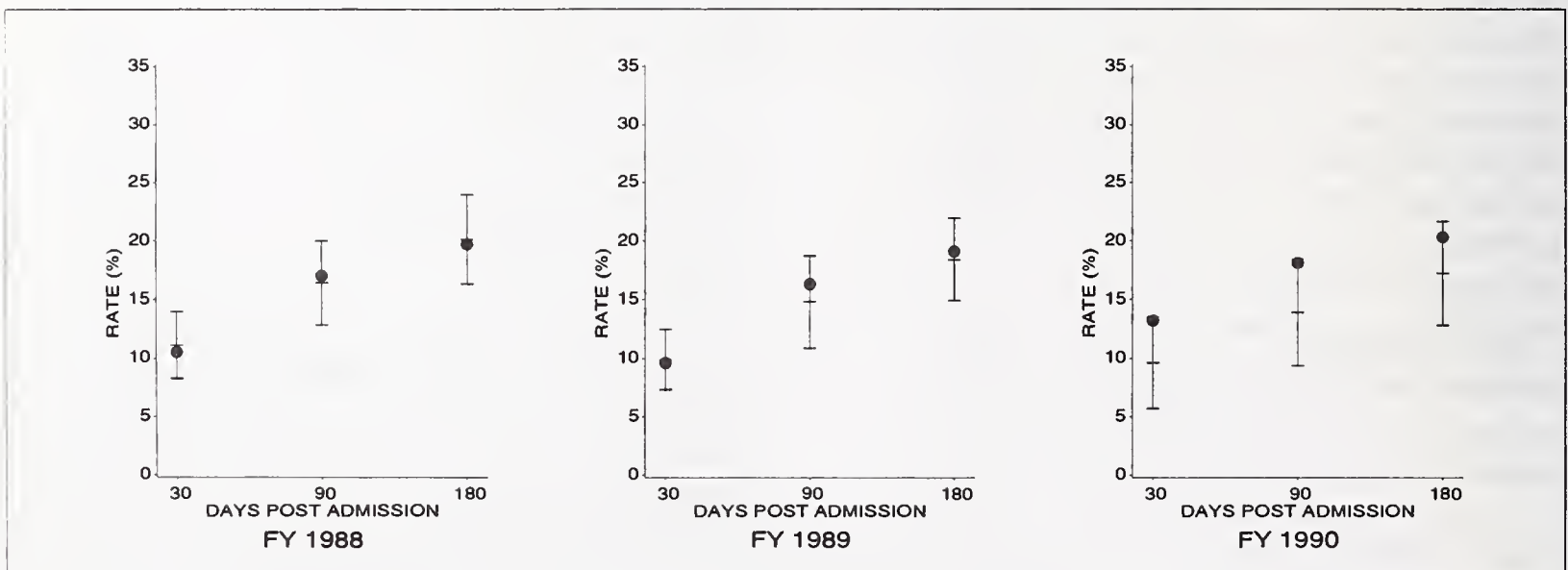
1525 WEST FIFTH STREET  
STORM LAKE, IA 50588  
Medicare Provider Number: 160066

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 536                | 13.2                | 9.6  | 2.0   | 18.1    | 13.9 | 2.3   | 20.3     | 17.2 | 2.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 34                 | 44.1                | 28.8 | ----- | 47.1    | 32.6 | ----- | 47.1     | 35.6 | ----- |
| Congestive Heart Failure.....              | 27                 | 25.9                | 14.2 | ----- | 25.9    | 22.3 | ----- | 33.3     | 28.6 | ----- |
| Pneumonia/Influenza.....                   | 19                 | 15.8                | 14.1 | ----- | 21.1    | 19.1 | ----- | 21.1     | 22.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 14                 | 7.1                 | 7.1  | ----- | 14.3    | 12.2 | ----- | 21.4     | 15.8 | ----- |
| Transient Cerebral Ischemia.....           | 9                  | 0.0                 | 1.3  | ----- | 0.0     | 2.9  | ----- | 0.0      | 4.9  | ----- |
| Stroke.....                                | 35                 | 25.7                | 22.3 | ----- | 28.6    | 28.2 | ----- | 28.6     | 32.4 | ----- |
| Hip Fracture.....                          | 15                 | 0.0                 | 8.0  | ----- | 13.3    | 13.8 | ----- | 20.0     | 17.3 | ----- |
| Sepsis.....                                | 7                  | 28.6                | 19.4 | ----- | 28.6    | 26.8 | ----- | 28.6     | 31.0 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2                  | 0.0                 | 5.9  | ----- | 0.0     | 10.9 | ----- | 0.0      | 15.0 | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 8                  | 0.0                 | 8.9  | ----- | 25.0    | 15.6 | ----- | 25.0     | 19.6 | ----- |
| Open Reduction of Hip Fracture.....        | 6                  | 0.0                 | 7.8  | ----- | 16.7    | 14.6 | ----- | 33.3     | 18.9 | ----- |
| Prostatectomy.....                         | 19                 | 0.0                 | 0.9  | ----- | 0.0     | 1.9  | ----- | 0.0      | 3.2  | ----- |
| Cholecystectomy.....                       | 8                  | 0.0                 | 0.9  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.8  | ----- |
| Hysterectomy.....                          | 4                  | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BUENA VISTA COUNTY HOSPITAL

Medicare Provider Number: 160066

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.2 years  
Proportion female..... 58.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 48.3 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 0.4 %  
Admitted for emergency..... 0.2 %

### COMORBIDITIES:

Cancer..... 3.5 %  
Chronic cardiovascular disease..... 43.7 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 11.2 %  
Cerebrovascular degeneration..... 3.4 %  
Diabetes mellitus..... 7.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 71.8%  
State ..... 25.5%  
Outside State ..... 2.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 59  
Occupancy Rate ..... 52.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 43.2 %  
Case Mix Index (CMI) ..... 1.0467

### STAFFING:

Total Number of Physicians..... 13  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 77  
Licensed Practical Nurses ..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# BURGESS MEMORIAL HOSPITAL

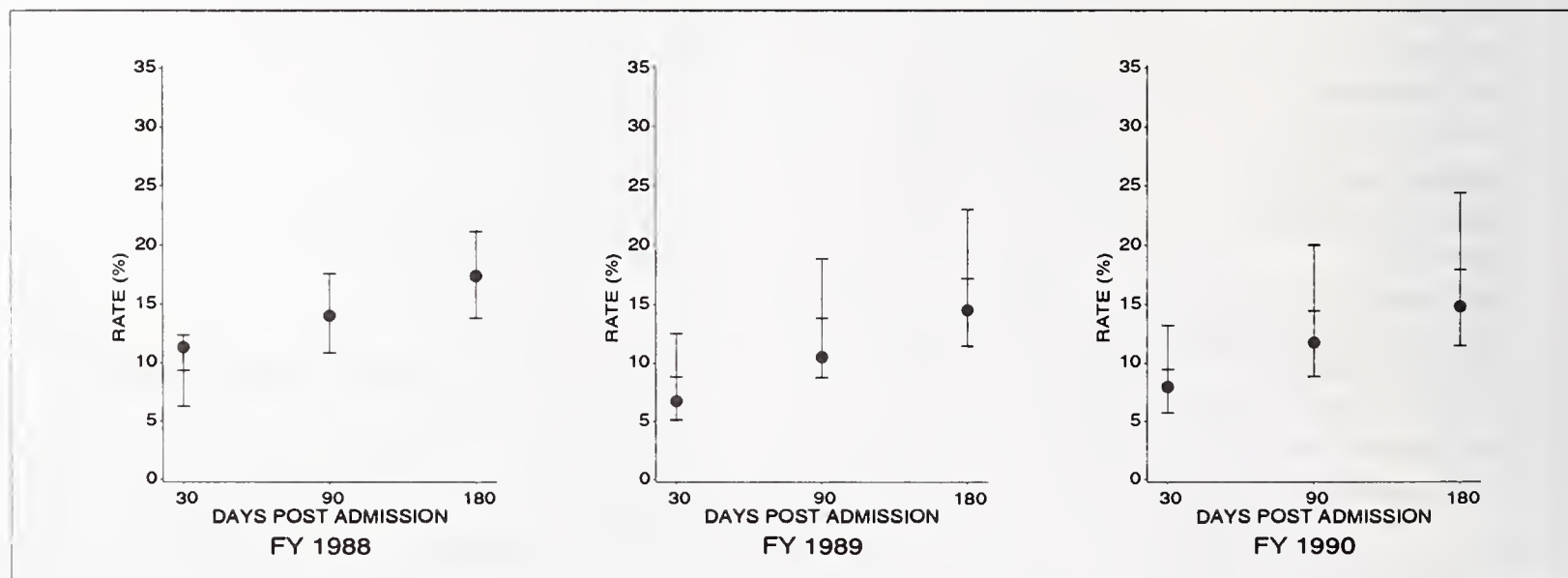
1600 DIAMOND  
ONAWA, IA 51040  
Medicare Provider Number: 160107

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 453                | 7.9                 | 9.4  | 1.9   | 11.7    | 14.4 | 2.8   | 14.8     | 17.9 | 3.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 15                 | 26.7                | 22.1 | ----- | 26.7    | 26.4 | ----- | 26.7     | 29.9 | ----- |
| Congestive Heart Failure.....              | 26                 | 7.7                 | 14.2 | ----- | 15.4    | 23.1 | ----- | 23.1     | 29.0 | ----- |
| Pneumonia/Influenza.....                   | 52                 | 7.7                 | 12.2 | 8.7   | 9.6     | 17.0 | 10.1  | 19.2     | 20.4 | 9.7   |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 0.0                 | 4.7  | ----- | 0.0     | 8.5  | ----- | 33.3     | 11.8 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.6  | ----- | 0.0     | 3.5  | ----- | 0.0      | 5.6  | ----- |
| Stroke.....                                | 27                 | 18.5                | 19.5 | ----- | 18.5    | 26.5 | ----- | 18.5     | 30.6 | ----- |
| Hip Fracture.....                          | 13                 | 0.0                 | 6.9  | ----- | 0.0     | 11.9 | ----- | 0.0      | 15.0 | ----- |
| Sepsis.....                                | 7                  | 28.6                | 23.3 | ----- | 28.6    | 30.0 | ----- | 28.6     | 34.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 12                 | 0.0                 | 5.0  | ----- | 0.0     | 8.7  | ----- | 0.0      | 11.0 | ----- |
| Open Reduction of Hip Fracture.....        | 6                  | 0.0                 | 6.5  | ----- | 0.0     | 11.3 | ----- | 0.0      | 14.3 | ----- |
| Prostatectomy.....                         | 6                  | 0.0                 | 0.5  | ----- | 0.0     | 1.3  | ----- | 0.0      | 2.3  | ----- |
| Cholecystectomy.....                       | 2                  | 0.0                 | 0.9  | ----- | 0.0     | 1.7  | ----- | 0.0      | 2.4  | ----- |
| Hysterectomy.....                          | 3                  | 0.0                 | 0.3  | ----- | 0.0     | 0.6  | ----- | 0.0      | 1.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# BURGESS MEMORIAL HOSPITAL

Medicare Provider Number: 160107

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 55.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 87.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.4 %  
Admitted for emergency..... 3.8 %

### COMORBIDITIES:

Cancer..... 6.4 %  
Chronic cardiovascular disease..... 54.5 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 17.0 %  
Cerebrovascular degeneration..... 2.4 %  
Diabetes mellitus..... 8.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 68.3%  
State ..... 23.0%  
Outside State ..... 8.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 48  
Occupancy Rate ..... 45.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.5 %  
Case Mix Index (CMI) ..... 1.0909

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 38  
Licensed Practical Nurses ..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# BURLINGTON MEDICAL CENTER

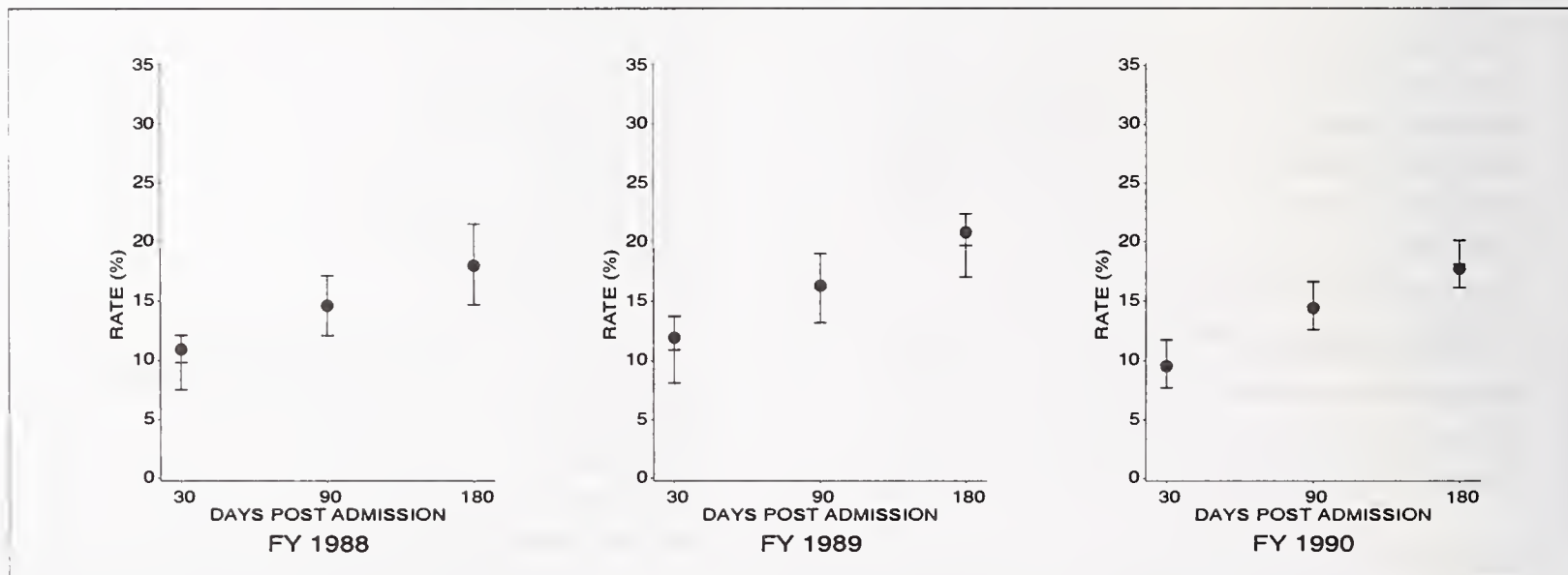
602 N 3RD ST  
BURLINGTON, IA 52601  
Medicare Provider Number: 160057

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 1806               | 9.5                 | 9.7  | 1.0  | 14.4    | 14.6 | 1.0  | 17.7     | 18.1 | 1.0  |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 64                 | 29.7                | 27.0 | 6.2  | 34.4    | 30.5 | 6.6  | 40.6     | 33.3 | 7.9  |
| Congestive Heart Failure.....              | 83                 | 19.3                | 13.8 | 6.5  | 26.5    | 21.7 | 5.7  | 28.9     | 27.9 | 5.8  |
| Pneumonia/Influenza.....                   | 100                | 12.0                | 14.8 | 6.8  | 18.0    | 20.2 | 4.6  | 23.0     | 24.0 | 4.6  |
| Chronic Obstructive Pulmonary Disease..... | 17                 | 11.8                | 6.2  | ---- | 17.6    | 10.9 | ---- | 17.6     | 14.7 | ---- |
| Transient Cerebral Ischemia.....           | 22                 | 0.0                 | 1.2  | ---- | 4.5     | 2.9  | ---- | 4.5      | 5.2  | ---- |
| Stroke.....                                | 72                 | 15.3                | 19.7 | 8.0  | 18.1    | 25.1 | 10.3 | 19.4     | 28.8 | 11.6 |
| Hip Fracture.....                          | 77                 | 2.6                 | 6.9  | 4.8  | 10.4    | 12.1 | 5.4  | 13.0     | 15.6 | 5.5  |
| Sepsis.....                                | 50                 | 24.0                | 23.3 | ---- | 32.0    | 31.0 | ---- | 40.0     | 35.6 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 7                  | 0.0                 | 4.9  | ---- | 0.0     | 9.0  | ---- | 0.0      | 11.9 | ---- |
| Carotid Endarterectomy.....                | 12                 | 0.0                 | 1.5  | ---- | 0.0     | 2.6  | ---- | 8.3      | 3.8  | ---- |
| Hip Replacement/Reconstruction.....        | 61                 | 0.0                 | 3.0  | 3.4  | 4.9     | 5.5  | 3.5  | 8.2      | 7.4  | 3.7  |
| Open Reduction of Hip Fracture.....        | 42                 | 2.4                 | 7.3  | ---- | 11.9    | 13.1 | ---- | 11.9     | 17.0 | ---- |
| Prostatectomy.....                         | 38                 | 2.6                 | 0.7  | ---- | 2.6     | 1.6  | ---- | 2.6      | 2.9  | ---- |
| Cholecystectomy.....                       | 38                 | 0.0                 | 3.5  | ---- | 2.6     | 6.8  | ---- | 2.6      | 9.2  | ---- |
| Hysterectomy.....                          | 9                  | 0.0                 | 0.8  | ---- | 0.0     | 1.3  | ---- | 0.0      | 1.8  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# BURLINGTON MEDICAL CENTER

Medicare Provider Number: 160057

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.4 years  
Proportion female..... 57.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 53.9 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 8.6 %  
Admitted for emergency..... 50.3 %

### COMORBIDITIES:

Cancer..... 10.1 %  
Chronic cardiovascular disease..... 35.5 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 1.8 %  
Chronic pulmonary disease..... 11.8 %  
Cerebrovascular degeneration..... 3.7 %  
Diabetes mellitus..... 8.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 66.0%  
State ..... 21.3%  
Outside State ..... 12.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 388  
Occupancy Rate ..... 69.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 41.3 %  
Case Mix Index (CMI) ..... 1.3450

### STAFFING:

Total Number of Physicians..... 73  
Percent of Physicians Board  
Certified Specialists ..... 63.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 172  
Licensed Practical Nurses ..... 32

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CASS COUNTY MEMORIAL HOSPITAL

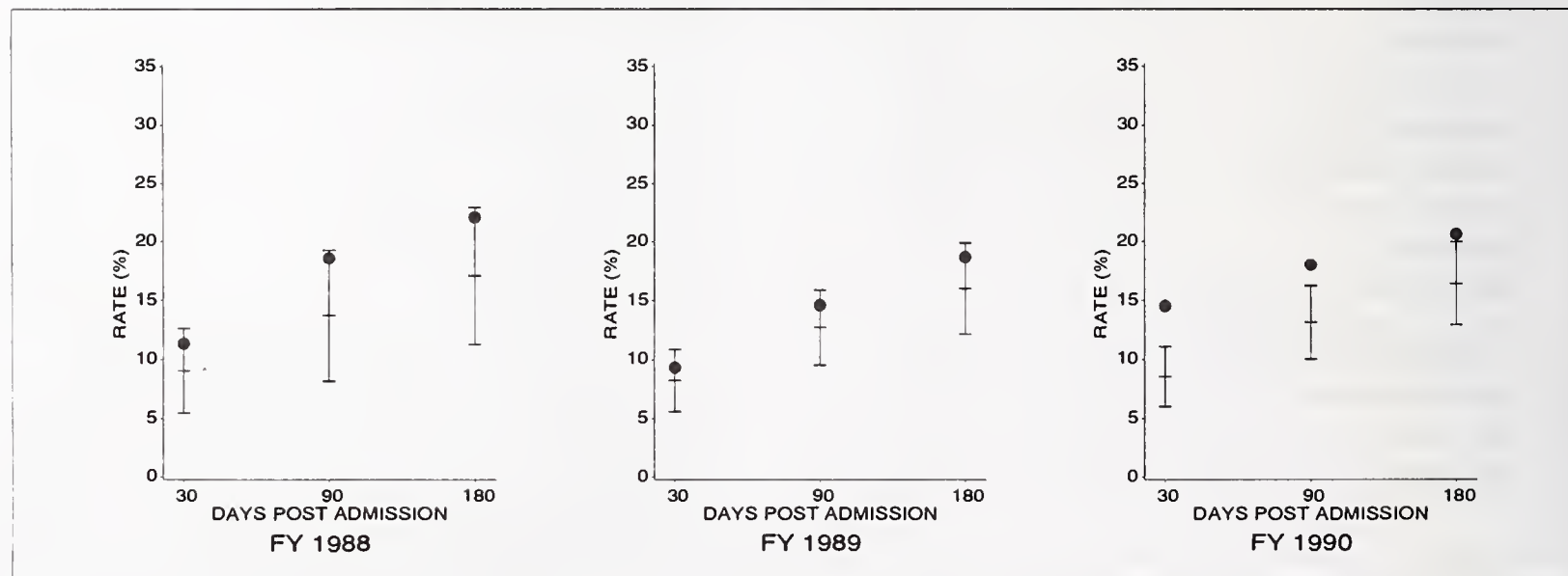
1501 E 10TH ST  
ATLANTIC, IA 50022  
Medicare Provider Number: 160039

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 567             | 14.5                | 8.5  | 1.3   | 18.0    | 13.1 | 1.6   | 20.6     | 16.4 | 1.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 19              | 31.6                | 19.6 | ----- | 31.6    | 23.1 | ----- | 36.8     | 25.9 | ----- |
| Congestive Heart Failure.....              | 27              | 37.0                | 15.4 | ----- | 37.0    | 25.4 | ----- | 37.0     | 32.2 | ----- |
| Pneumonia/Influenza.....                   | 38              | 18.4                | 14.6 | ----- | 18.4    | 20.6 | ----- | 23.7     | 24.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 14              | 14.3                | 7.5  | ----- | 21.4    | 13.0 | ----- | 28.6     | 16.9 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 0.9  | ----- | 0.0     | 2.3  | ----- | 0.0      | 4.1  | ----- |
| Stroke.....                                | 24              | 29.2                | 15.6 | ----- | 37.5    | 22.6 | ----- | 50.0     | 26.2 | ----- |
| Hip Fracture.....                          | 13              | 15.4                | 6.4  | ----- | 23.1    | 12.0 | ----- | 23.1     | 16.1 | ----- |
| Sepsis.....                                | 17              | 35.3                | 17.5 | ----- | 41.2    | 23.7 | ----- | 41.2     | 27.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 100.0               | 13.9 | ----- | 100.0   | 20.2 | ----- | 100.0    | 23.1 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5               | 20.0                | 6.7  | ----- | 40.0    | 12.8 | ----- | 40.0     | 17.2 | ----- |
| Open Reduction of Hip Fracture.....        | 5               | 20.0                | 6.5  | ----- | 20.0    | 12.6 | ----- | 20.0     | 17.0 | ----- |
| Prostatectomy.....                         | 8               | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.3  | ----- |
| Cholecystectomy.....                       | 13              | 0.0                 | 1.4  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.6  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.6  | ----- | 0.0     | 1.3  | ----- | 0.0      | 2.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CASS COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160039

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.7 years

Proportion female..... 59.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.2 %

Transferred from skilled nursing facility..... 0.4 %

Admitted for elective procedure..... 0.0 %

Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 5.5 %

Chronic cardiovascular disease..... 29.6 %

Chronic liver disease..... 0.4 %

Chronic renal disease..... 3.4 %

Chronic pulmonary disease..... 12.3 %

Cerebrovascular degeneration..... 4.2 %

Diabetes mellitus..... 7.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 71.3%

State..... 27.1%

Outside State..... 1.6%

Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.6 Days

State..... 7.6 Days

National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 71

Occupancy Rate..... 49.0 %

Ownership/Control..... Local Government

Medicare Discharges..... 51.5 %

Case Mix Index (CMI)..... 0.9786

### STAFFING:

Total Number of Physicians..... 13

Percent of Physicians Board  
Certified Specialists..... 61.5 %

Medical Residents/Interns..... 0

Registered Nurses..... 62

Licensed Practical Nurses..... 21

### SPECIALTY SERVICES:

Burn Unit..... No

Cardiac Intensive Care..... No

Comprehensive Geriatric..... No

Hospice Care..... Yes

Medical/Surgical Intensive Care..... Yes

Organ/Tissue Transplant..... No

Other Intensive Care..... No

Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No

Rehabilitation..... No

Psychiatric..... Yes

Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# CENTRAL COMMUNITY HOSPITAL

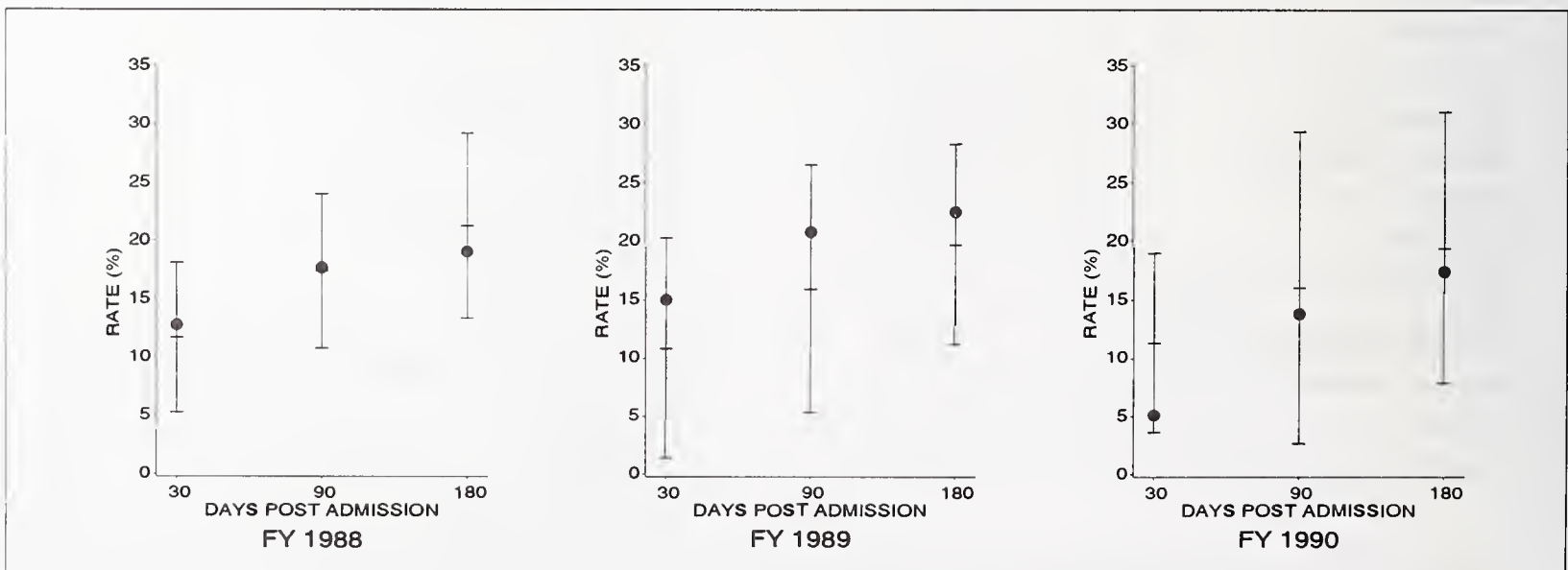
901 DAVIDSON ST  
ELKADER, IA 52043  
Medicare Provider Number: 160063

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 138             | 5.1                 | 11.3 | 3.8  | 13.8    | 16.0 | 6.7  | 17.4     | 19.4 | 5.8  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 1               | 100.0               | 29.5 | ---- | 100.0   | 32.3 | ---- | 100.0    | 34.1 | ---- |
| Congestive Heart Failure.....              | 5               | 20.0                | 31.0 | ---- | 20.0    | 37.9 | ---- | 40.0     | 43.2 | ---- |
| Pneumonia/Influenza.....                   | 15              | 6.7                 | 14.4 | ---- | 20.0    | 20.5 | ---- | 20.0     | 24.0 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 2.9  | ---- | 0.0     | 6.2  | ---- | 0.0      | 8.8  | ---- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.6  | ---- | 0.0     | 3.5  | ---- | 0.0      | 6.1  | ---- |
| Stroke.....                                | 12              | 8.3                 | 23.2 | ---- | 33.3    | 29.2 | ---- | 41.7     | 33.1 | ---- |
| Hip Fracture.....                          | 8               | 0.0                 | 4.9  | ---- | 12.5    | 8.8  | ---- | 12.5     | 11.6 | ---- |
| Sepsis.....                                | 4               | 50.0                | 43.7 | ---- | 50.0    | 56.7 | ---- | 50.0     | 62.7 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 2.9  | ---- | 0.0     | 5.9  | ---- | 0.0      | 8.2  | ---- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 4.3  | ---- | 33.3    | 8.2  | ---- | 33.3     | 11.4 | ---- |
| Prostatectomy.....                         | 2               | 0.0                 | 4.7  | ---- | 0.0     | 12.3 | ---- | 0.0      | 21.2 | ---- |
| Cholecystectomy.....                       | 1               | 0.0                 | 1.6  | ---- | 0.0     | 2.5  | ---- | 0.0      | 3.1  | ---- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.3  | ---- | 0.0     | 0.8  | ---- | 0.0      | 1.5  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CENTRAL COMMUNITY HOSPITAL

Medicare Provider Number: 160063

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.3 years  
Proportion female..... 51.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 46.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 51.4 %

### COMORBIDITIES:

Cancer..... 7.2 %  
Chronic cardiovascular disease..... 33.3 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 3.6 %  
Chronic pulmonary disease..... 14.5 %  
Cerebrovascular degeneration..... 3.6 %  
Diabetes mellitus..... 7.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 92.8%  
State ..... 7.2%  
Outside State ..... 0.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 29  
Occupancy Rate ..... 51.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 56.5 %  
Case Mix Index (CMI) ..... 1.1449

### STAFFING:

Total Number of Physicians..... 2  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 17  
Licensed Practical Nurses ..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CHARTER COMMUNITY HOSPITAL

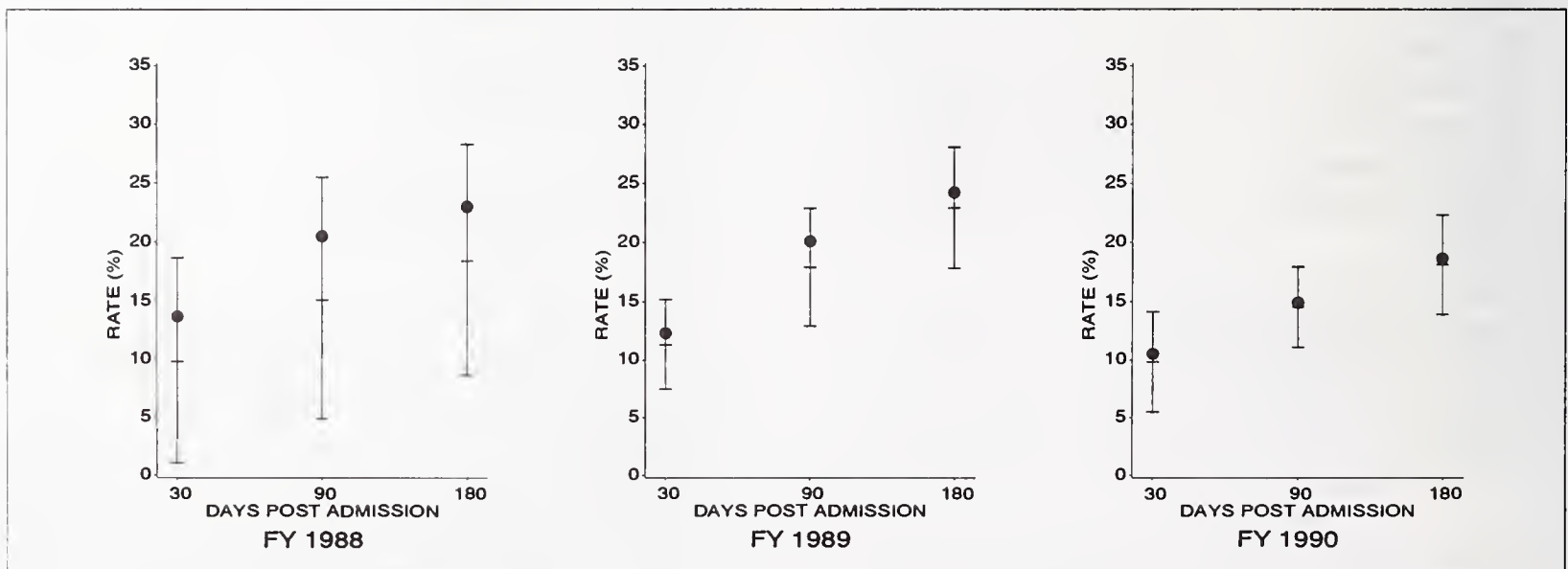
1818 48TH ST  
DES MOINES, IA 50310  
Medicare Provider Number: 160133

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 430                | 10.5                | 9.8  | 2.2   | 14.9    | 14.5 | 1.7   | 18.6     | 18.1 | 2.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5                  | 40.0                | 30.0 | ----- | 40.0    | 32.3 | ----- | 40.0     | 34.6 | ----- |
| Congestive Heart Failure.....              | 20                 | 30.0                | 16.4 | ----- | 40.0    | 24.7 | ----- | 45.0     | 30.6 | ----- |
| Pneumonia/Influenza.....                   | 36                 | 5.6                 | 14.4 | ----- | 11.1    | 19.9 | ----- | 19.4     | 24.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 14                 | 0.0                 | 10.0 | ----- | 0.0     | 17.1 | ----- | 0.0      | 22.5 | ----- |
| Transient Cerebral Ischemia.....           | 6                  | 0.0                 | 3.3  | ----- | 0.0     | 7.5  | ----- | 0.0      | 12.3 | ----- |
| Stroke.....                                | 13                 | 0.0                 | 19.0 | ----- | 0.0     | 24.3 | ----- | 15.4     | 27.3 | ----- |
| Hip Fracture.....                          | 12                 | 0.0                 | 6.2  | ----- | 0.0     | 10.6 | ----- | 0.0      | 13.6 | ----- |
| Sepsis.....                                | 5                  | 60.0                | 24.6 | ----- | 60.0    | 34.1 | ----- | 60.0     | 40.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3                  | 0.0                 | 4.1  | ----- | 0.0     | 7.4  | ----- | 0.0      | 9.4  | ----- |
| Open Reduction of Hip Fracture.....        | 4                  | 0.0                 | 6.2  | ----- | 0.0     | 11.2 | ----- | 0.0      | 14.7 | ----- |
| Prostatectomy.....                         | 5                  | 0.0                 | 0.8  | ----- | 0.0     | 1.9  | ----- | 0.0      | 3.4  | ----- |
| Cholecystectomy.....                       | 4                  | 25.0                | 3.8  | ----- | 25.0    | 6.7  | ----- | 25.0     | 9.0  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# CHARTER COMMUNITY HOSPITAL

Medicare Provider Number: 160133

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.4 years

Proportion female..... 64.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 37.4 %

Transferred from skilled nursing facility..... 0.0 %

Admitted for elective procedure..... 0.2 %

Admitted for emergency..... 55.1 %

### COMORBIDITIES:

Cancer..... 4.2 %

Chronic cardiovascular disease..... 38.8 %

Chronic liver disease..... 0.5 %

Chronic renal disease..... 0.7 %

Chronic pulmonary disease..... 24.4 %

Cerebrovascular degeneration..... 5.3 %

Diabetes mellitus..... 10.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 79.8%

State ..... 18.2%

Outside State ..... 2.0%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.1 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 66

Occupancy Rate ..... 50.0 %

Ownership/Control..... Private, For Profit

Medicare Discharges ..... 47.6 %

Case Mix Index (CMI) ..... 1.1367

### STAFFING:

Total Number of Physicians..... 30

Percent of Physicians Board  
Certified Specialists..... 83.3 %

Medical Residents/Interns ..... 1

Registered Nurses..... 33

Licensed Practical Nurses..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... Yes

Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# CLARINDA MUNICIPAL HOSPITAL

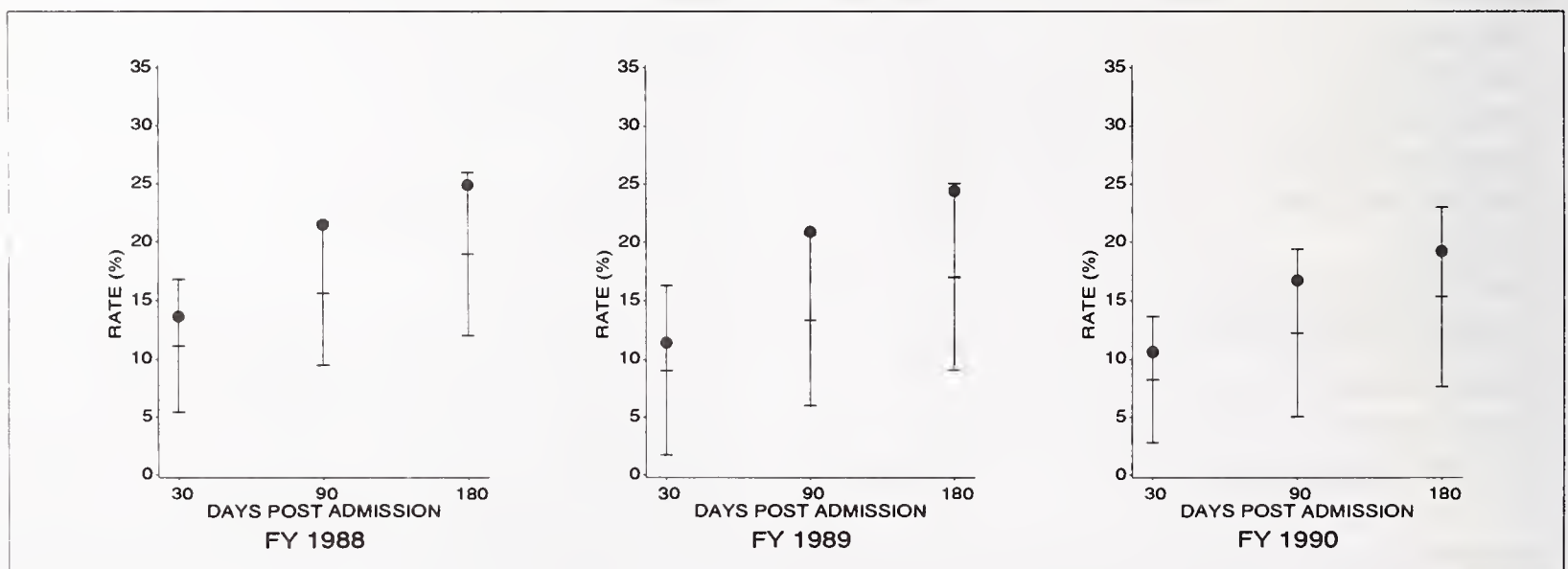
17TH & WELLS  
CLARINDA, IA 51632  
Medicare Provider Number: 160043

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 245             | 10.6                | 8.2  | 2.7   | 16.7    | 12.2 | 3.6   | 19.2     | 15.3 | 3.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13              | 15.4                | 28.0 | ----- | 38.5    | 31.8 | ----- | 38.5     | 35.3 | ----- |
| Congestive Heart Failure.....              | 7               | 14.3                | 14.5 | ----- | 42.9    | 23.6 | ----- | 42.9     | 29.9 | ----- |
| Pneumonia/Influenza.....                   | 13              | 15.4                | 15.8 | ----- | 15.4    | 22.3 | ----- | 15.4     | 26.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 8               | 25.0                | 7.7  | ----- | 25.0    | 13.8 | ----- | 37.5     | 18.0 | ----- |
| Transient Cerebral Ischemia.....           | 1               | 100.0               | 0.7  | ----- | 100.0   | 1.8  | ----- | 100.0    | 3.4  | ----- |
| Stroke.....                                | 4               | 25.0                | 20.2 | ----- | 25.0    | 25.0 | ----- | 25.0     | 28.1 | ----- |
| Hip Fracture.....                          | 10              | 10.0                | 4.8  | ----- | 10.0    | 8.9  | ----- | 10.0     | 12.2 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 2.6  | ----- | 0.0     | 5.1  | ----- | 0.0      | 7.5  | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 0.0                 | 4.9  | ----- | 0.0     | 9.0  | ----- | 0.0      | 11.8 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 9               | 11.1                | 1.7  | ----- | 11.1    | 2.7  | ----- | 11.1     | 3.5  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 1.0  | ----- | 0.0     | 2.7  | ----- | 0.0      | 4.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CLARINDA MUNICIPAL HOSPITAL

Medicare Provider Number: 160043

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.3 years  
Proportion female..... 64.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 44.9 %

### COMORBIDITIES:

Cancer..... 2.4 %  
Chronic cardiovascular disease..... 28.2 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 9.8 %  
Cerebrovascular degeneration..... 1.2 %  
Diabetes mellitus..... 6.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 69.4%  
State ..... 24.3%  
Outside State ..... 6.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 31  
Occupancy Rate ..... 32.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 64.5 %  
Case Mix Index (CMI) ..... 0.9602

### STAFFING:

Total Number of Physicians..... 8  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 20  
Licensed Practical Nurses ..... 17

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# CLARKE COUNTY PUBLIC HOSPITAL

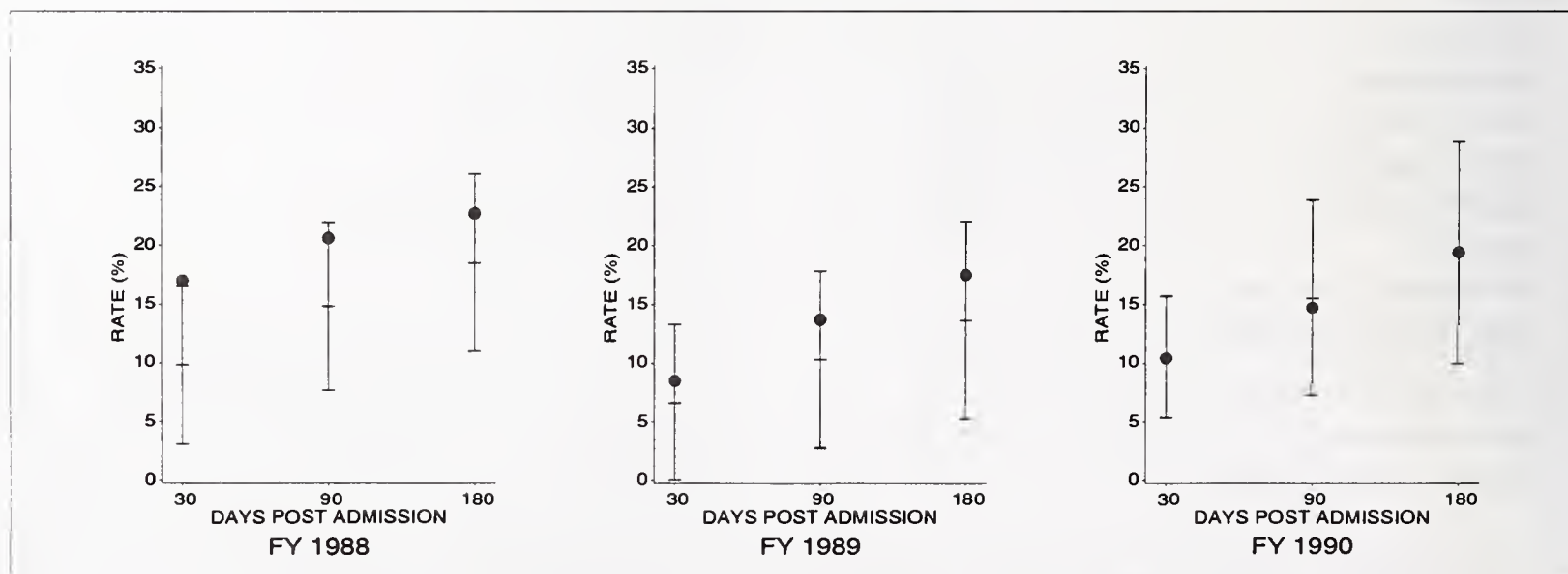
800 S FILLMORE ST  
OSCEOLA, IA 50213  
Medicare Provider Number: 160049

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 211                | 10.4                | 10.5 | 2.6   | 14.7    | 15.5 | 4.2   | 19.4     | 19.3 | 4.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 9                  | 22.2                | 36.8 | ----- | 44.4    | 41.4 | ----- | 44.4     | 46.1 | ----- |
| Congestive Heart Failure.....              | 8                  | 25.0                | 16.4 | ----- | 25.0    | 24.4 | ----- | 25.0     | 30.4 | ----- |
| Pneumonia/Influenza.....                   | 18                 | 22.2                | 23.6 | ----- | 22.2    | 31.8 | ----- | 22.2     | 37.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6                  | 16.7                | 6.3  | ----- | 16.7    | 11.4 | ----- | 33.3     | 15.3 | ----- |
| Transient Cerebral Ischemia.....           | 7                  | 0.0                 | 2.0  | ----- | 0.0     | 4.6  | ----- | 0.0      | 7.8  | ----- |
| Stroke.....                                | 13                 | 38.5                | 25.8 | ----- | 46.2    | 35.7 | ----- | 69.2     | 41.0 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1                  | 0.0                 | 14.4 | ----- | 0.0     | 22.0 | ----- | 0.0      | 28.0 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 0.0                 | 0.7  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.0  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CLARKE COUNTY PUBLIC HOSPITAL

Medicare Provider Number: 160049

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.7 years  
Proportion female..... 64.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 42.2 %  
Transferred from skilled nursing facility..... 35.5 %  
Admitted for elective procedure..... 59.2 %  
Admitted for emergency..... 32.2 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 42.7 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 3.8 %  
Chronic pulmonary disease..... 11.4 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 3.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 78.1 %  
State..... 19.5 %  
Outside State..... 2.4 %  
Total..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.8 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 48  
Occupancy Rate..... 79.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 60.5 %  
Case Mix Index (CMI)..... 0.8693

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists..... 60.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses..... 6

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# COMMUNITY HOSPITAL AND HEALTH CENTER

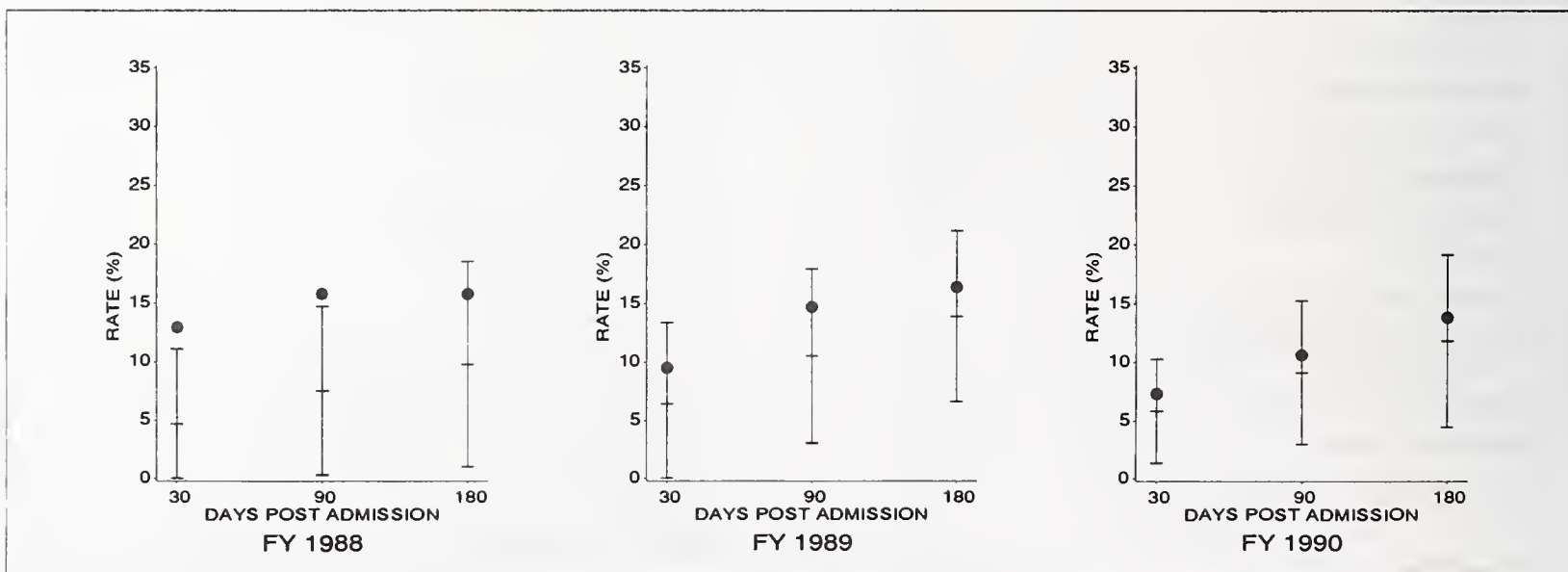
605 S MAIN ST  
SIOUX CENTER, IA 51250  
Medicare Provider Number: 160109

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 123             | 7.3                 | 5.8  | 2.2   | 10.6    | 9.1  | 3.1   | 13.8     | 11.8 | 3.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 28.6                | 14.8 | ----- | 28.6    | 18.1 | ----- | 28.6     | 21.8 | ----- |
| Congestive Heart Failure.....              | 7               | 28.6                | 15.9 | ----- | 42.9    | 27.4 | ----- | 42.9     | 34.9 | ----- |
| Pneumonia/Influenza.....                   | 6               | 0.0                 | 8.2  | ----- | 0.0     | 11.4 | ----- | 0.0      | 13.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0               |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 6               | 0.0                 | 14.4 | ----- | 16.7    | 19.9 | ----- | 16.7     | 24.2 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 0.0                 | 7.2  | ----- | 0.0     | 8.4  | ----- | 0.0      | 9.7  | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 2               | 0.0                 | 0.6  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.5  | ----- |
| Cholecystectomy.....                       | 10              | 0.0                 | 0.5  | ----- | 0.0     | 0.8  | ----- | 0.0      | 1.2  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# COMMUNITY HOSPITAL AND HEALTH CENTER

Medicare Provider Number: 160109

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.4 years  
Proportion female..... 49.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 98.4 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 4.9 %  
Chronic cardiovascular disease..... 17.1 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 6.5 %  
Cerebrovascular degeneration..... 2.4 %  
Diabetes mellitus..... 1.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 89.0%  
State..... 9.8%  
Outside State..... 1.2%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.5 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 90  
Occupancy Rate..... 88.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 22.2 %  
Case Mix Index (CMI)..... 1.0529

### STAFFING:

Total Number of Physicians..... 38  
Percent of Physicians Board  
Certified Specialists..... 10.5 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 18  
Licensed Practical Nurses..... 5

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... Yes  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# COMMUNITY MEMORIAL HOSPITAL

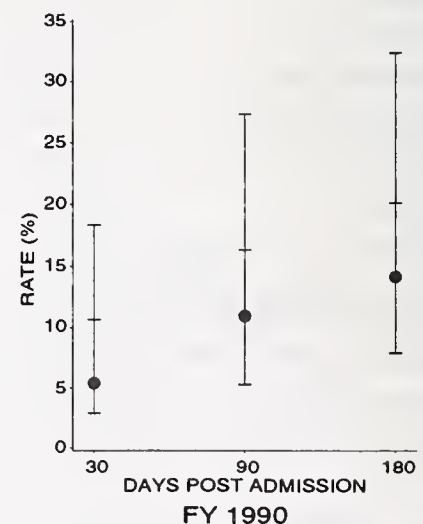
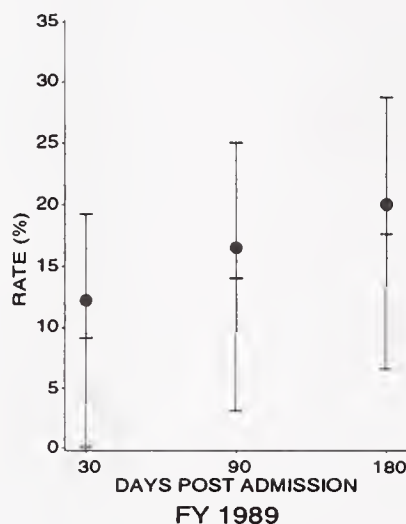
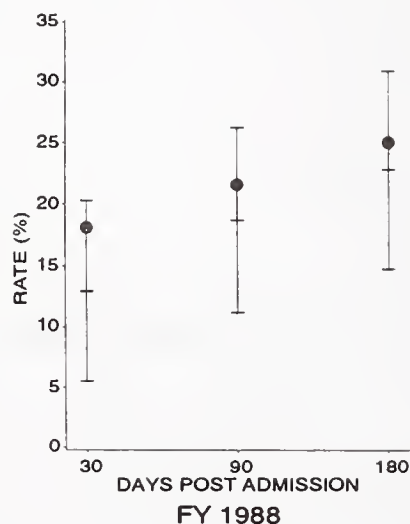
1316 S MAIN  
CLARION, IA 50525  
Medicare Provider Number: 160046

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 92              | 5.4                 | 10.6 | 3.9   | 10.9    | 16.3 | 5.5   | 14.1     | 20.1 | 6.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6               | 33.3                | 28.9 | ----- | 33.3    | 35.1 | ----- | 33.3     | 39.0 | ----- |
| Congestive Heart Failure.....              | 8               | 25.0                | 14.8 | ----- | 37.5    | 23.8 | ----- | 37.5     | 29.9 | ----- |
| Pneumonia/Influenza.....                   | 9               | 0.0                 | 13.6 | ----- | 0.0     | 18.2 | ----- | 0.0      | 21.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 7.3  | ----- | 0.0     | 14.2 | ----- | 0.0      | 18.8 | ----- |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 3               | 0.0                 | 21.3 | ----- | 0.0     | 27.6 | ----- | 33.3     | 31.0 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4               | 25.0                | 24.2 | ----- | 25.0    | 34.6 | ----- | 25.0     | 40.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# COMMUNITY MEMORIAL HOSPITAL

Medicare Provider Number: 160046

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.3 years  
Proportion female..... 51.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 90.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 7.6 %

### COMORBIDITIES:

Cancer..... 3.3 %  
Chronic cardiovascular disease..... 44.6 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 5.4 %  
Chronic pulmonary disease..... 12.0 %  
Cerebrovascular degeneration..... 4.3 %  
Diabetes mellitus..... 6.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 84.1%  
State ..... 15.1%  
Outside State ..... 0.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 33  
Occupancy Rate ..... 42.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 27.8 %  
Case Mix Index (CMI) ..... 1.0214

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists ..... 42.9 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 20  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# COMMUNITY MEMORIAL HOSPITAL

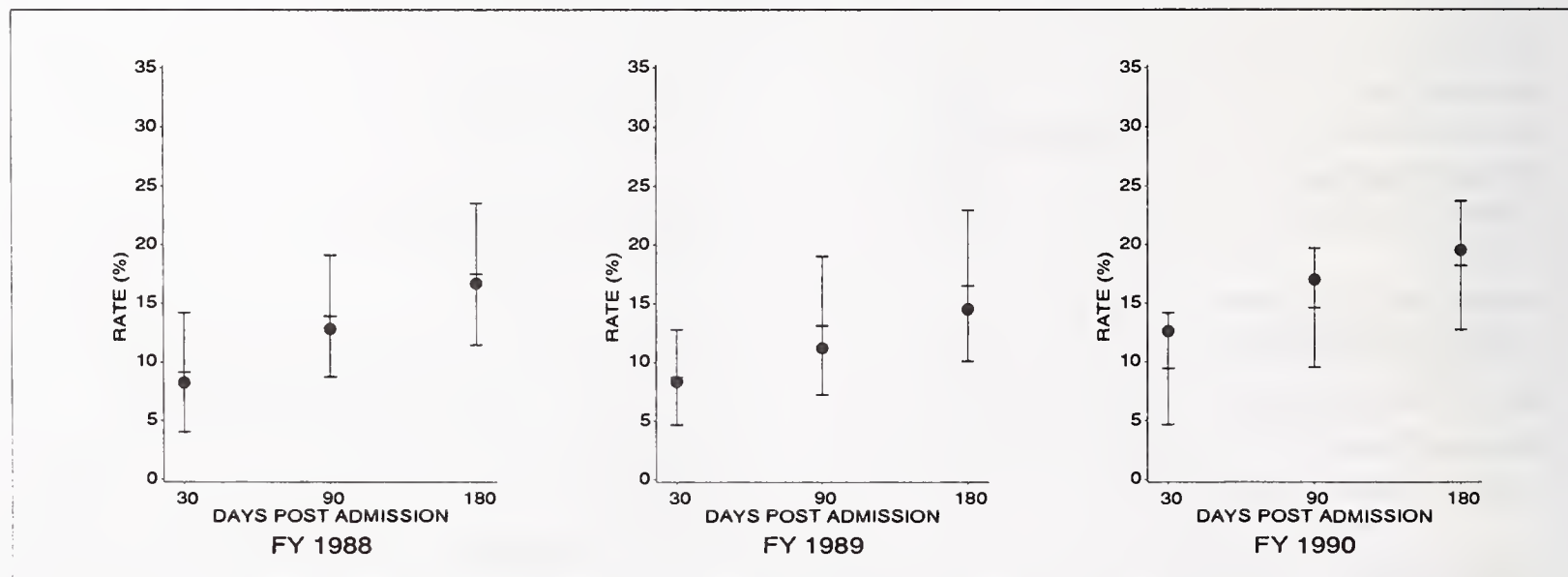
631 N 8TH ST  
MISSOURI VALLEY, IA 51555  
Medicare Provider Number: 160065

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 389                | 12.6                | 9.4  | 2.4   | 17.0    | 14.6 | 2.5   | 19.5     | 18.2 | 2.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6                  | 50.0                | 20.0 | ----- | 50.0    | 23.0 | ----- | 50.0     | 25.3 | ----- |
| Congestive Heart Failure.....              | 25                 | 16.0                | 15.7 | ----- | 24.0    | 24.5 | ----- | 40.0     | 30.9 | ----- |
| Pneumonia/Influenza.....                   | 42                 | 21.4                | 18.3 | ----- | 26.2    | 25.1 | ----- | 26.2     | 29.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 10                 | 0.0                 | 6.4  | ----- | 0.0     | 12.0 | ----- | 20.0     | 16.1 | ----- |
| Transient Cerebral Ischemia.....           | 4                  | 0.0                 | 1.7  | ----- | 0.0     | 3.6  | ----- | 0.0      | 5.7  | ----- |
| Stroke.....                                | 14                 | 21.4                | 16.6 | ----- | 21.4    | 23.2 | ----- | 21.4     | 26.8 | ----- |
| Hip Fracture.....                          | 8                  | 0.0                 | 4.5  | ----- | 12.5    | 8.4  | ----- | 12.5     | 11.5 | ----- |
| Sepsis.....                                | 7                  | 57.1                | 30.3 | ----- | 85.7    | 39.4 | ----- | 85.7     | 44.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5                  | 0.0                 | 3.4  | ----- | 0.0     | 6.7  | ----- | 0.0      | 9.8  | ----- |
| Open Reduction of Hip Fracture.....        | 3                  | 0.0                 | 5.4  | ----- | 33.3    | 9.9  | ----- | 33.3     | 13.0 | ----- |
| Prostatectomy.....                         | 13                 | 0.0                 | 1.8  | ----- | 0.0     | 4.5  | ----- | 7.7      | 7.8  | ----- |
| Cholecystectomy.....                       | 4                  | 0.0                 | 1.1  | ----- | 0.0     | 1.8  | ----- | 0.0      | 2.2  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# COMMUNITY MEMORIAL HOSPITAL

Medicare Provider Number: 160065

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.6 years  
Proportion female..... 62.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 10.5 %  
Admitted for emergency..... 1.0 %

### COMORBIDITIES:

Cancer..... 6.4 %  
Chronic cardiovascular disease..... 39.8 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 15.2 %  
Cerebrovascular degeneration..... 3.1 %  
Diabetes mellitus..... 8.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 86.5%  
State ..... 11.7%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 36  
Occupancy Rate ..... 33.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 66.0 %  
Case Mix Index (CMI) ..... 1.1249

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists ..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 12  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# COMMUNITY MEMORIAL HOSPITAL

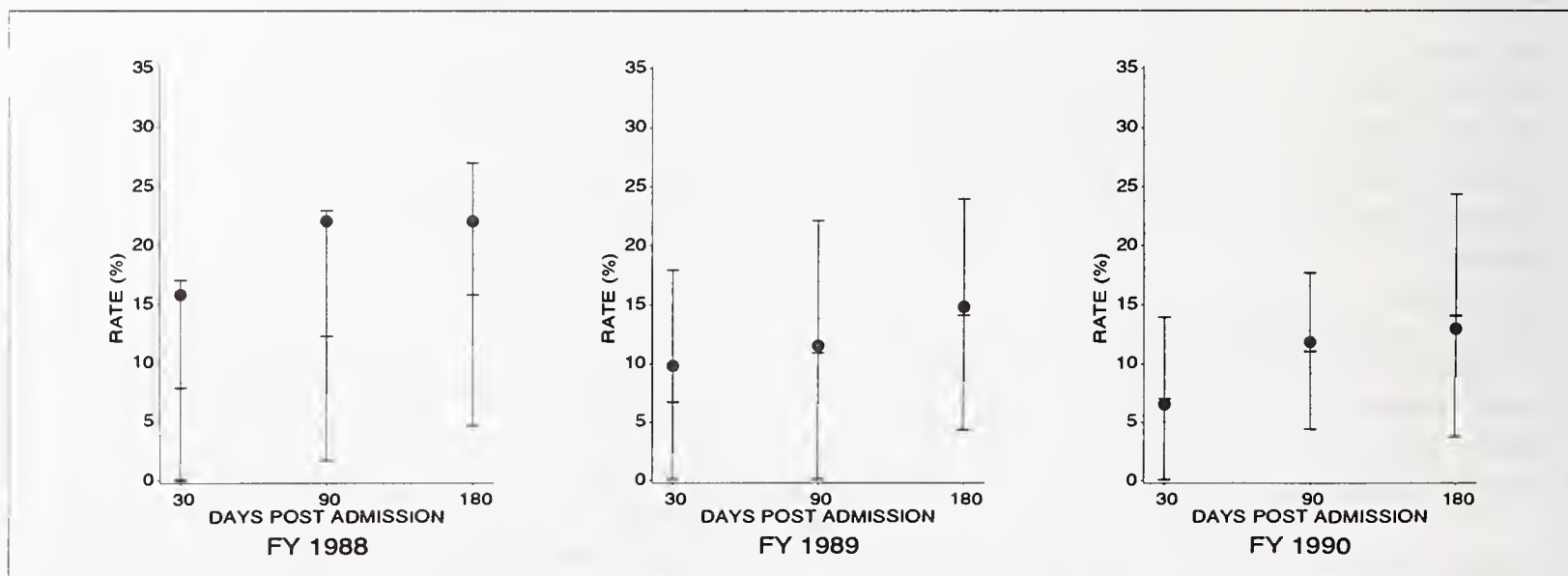
EIGHTH AVENUE WEST, BOX 188  
HARTLEY, IA 51346  
Medicare Provider Number: 160071

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 93                 | 6.5                 | 7.0  | 3.5   | 11.8    | 11.0 | 3.3   | 12.9     | 14.0 | 5.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Congestive Heart Failure.....              | 5                  | 0.0                 | 9.8  | ----- | 20.0    | 15.4 | ----- | 20.0     | 20.7 | ----- |
| Pneumonia/Influenza.....                   | 11                 | 9.1                 | 18.2 | ----- | 36.4    | 26.3 | ----- | 36.4     | 30.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.4  | ----- | 0.0     | 3.3  | ----- | 0.0      | 5.7  | ----- |
| Stroke.....                                | 5                  | 20.0                | 14.2 | ----- | 20.0    | 20.2 | ----- | 20.0     | 24.1 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3                  | 0.0                 | 10.6 | ----- | 0.0     | 14.0 | ----- | 0.0      | 16.9 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 4                  | 0.0                 | 1.4  | ----- | 0.0     | 2.2  | ----- | 0.0      | 2.8  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.1  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# COMMUNITY MEMORIAL HOSPITAL

Medicare Provider Number: 160071

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.7 years  
Proportion female..... 62.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 96.8 %  
Admitted for emergency..... 1.1 %

### COMORBIDITIES:

Cancer..... 6.5 %  
Chronic cardiovascular disease..... 40.9 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.1 %  
Chronic pulmonary disease..... 6.5 %  
Cerebrovascular degeneration..... 1.1 %  
Diabetes mellitus..... 5.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 79.0%  
State ..... 19.4%  
Outside State ..... 1.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 3.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 63  
Occupancy Rate ..... 85.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 40.7 %  
Case Mix Index (CMI) ..... 1.0716

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# COMMUNITY MEMORIAL HOSPITAL

OAK PARK AND HOSPITAL RD  
POSTVILLE, IA 52162  
Medicare Provider Number: 160132

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 10                 | 20.0                | 11.4 | ----- | 20.0    | 15.6 | ----- | 20.0     | 18.7 | ----- |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1                  | 0.0                 | 38.1 | ----- | 0.0     | 40.6 | ----- | 0.0      | 42.1 | ----- |
| Congestive Heart Failure.....              | 3                  | 66.7                | 13.2 | ----- | 66.7    | 20.2 | ----- | 66.7     | 25.2 | ----- |
| Pneumonia/Influenza.....                   | 2                  | 0.0                 | 9.0  | ----- | 0.0     | 13.3 | ----- | 0.0      | 17.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

# COMMUNITY MEMORIAL HOSPITAL

Medicare Provider Number: 160132

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.9 years  
Proportion female..... 70.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 70.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 70.0 %  
Admitted for emergency..... 20.0 %

### COMORBIDITIES:

Cancer..... 0.0 %  
Chronic cardiovascular disease..... 60.0 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.0 %  
Chronic pulmonary disease..... 30.0 %  
Cerebrovascular degeneration..... 20.0 %  
Diabetes mellitus..... 10.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 64.3%  
State ..... 28.6%  
Outside State ..... 7.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year 1989

### PROFILE:

Total Beds ..... 32  
Ownership/Control..... Local Government  
Case Mix Index (CMI) ..... 0.9380

### STAFFING:

Medical Residents/Interns ..... 0  
Registered Nurses..... 6  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Coronary Care Unit ..... No  
Hospice Care ..... Yes  
Intensive Care Unit ..... Yes  
Organ Transplant ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# COMMUNITY MEMORIAL HOSPITAL

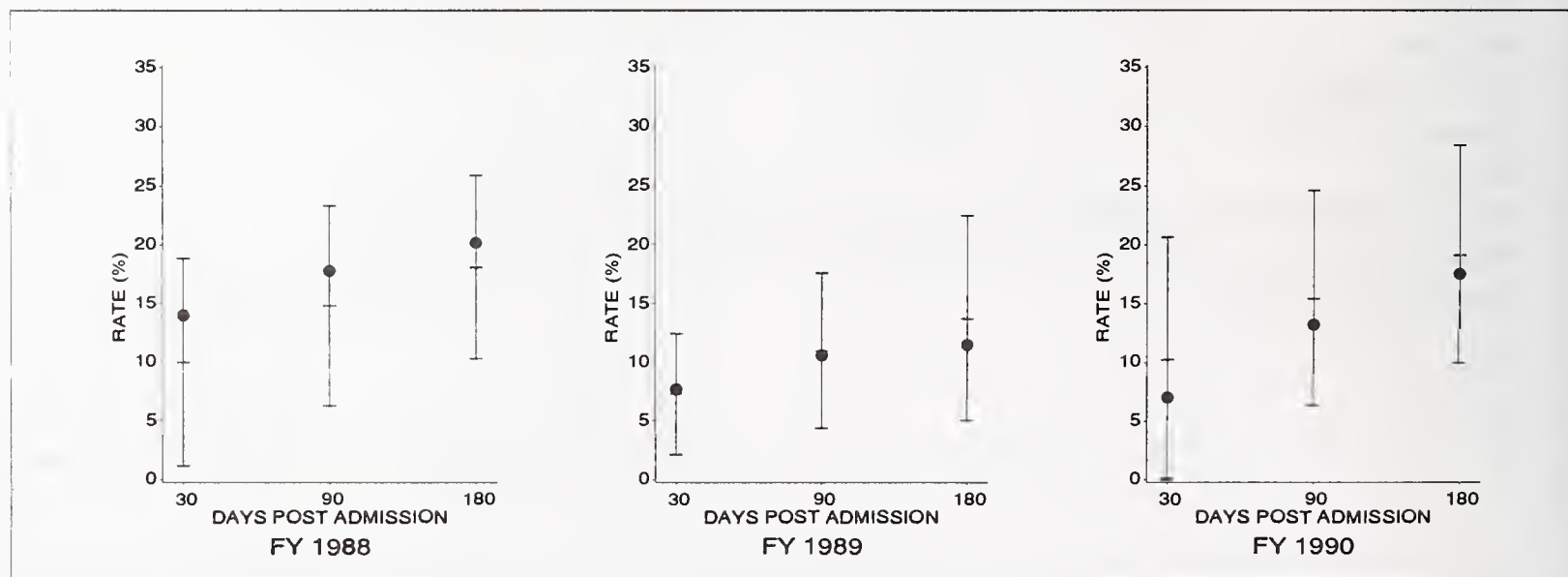
909 W 1ST ST  
SUMNER, IA 50674  
Medicare Provider Number: 160138

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 114                | 7.0                 | 10.2 | 5.2   | 13.2    | 15.4 | 4.6   | 17.5     | 19.1 | 4.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2                  | 50.0                | 27.8 | ----- | 100.0   | 32.7 | ----- | 100.0    | 36.6 | ----- |
| Congestive Heart Failure.....              | 16                 | 31.3                | 16.0 | ----- | 31.3    | 24.5 | ----- | 37.5     | 30.4 | ----- |
| Pneumonia/Influenza.....                   | 27                 | 7.4                 | 13.2 | ----- | 11.1    | 18.0 | ----- | 11.1     | 21.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 0.0                 | 15.0 | ----- | 33.3    | 23.9 | ----- | 33.3     | 30.8 | ----- |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 4                  | 0.0                 | 22.2 | ----- | 25.0    | 26.6 | ----- | 25.0     | 30.2 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 1                  | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |
| Cholecystectomy.....                       | 5                  | 0.0                 | 1.2  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.3  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# COMMUNITY MEMORIAL HOSPITAL

Medicare Provider Number: 160138

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.9 years  
Proportion female..... 60.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 39.5 %  
Transferred from skilled nursing facility..... 0.9 %  
Admitted for elective procedure..... 9.6 %  
Admitted for emergency..... 14.9 %

### COMORBIDITIES:

Cancer..... 5.3 %  
Chronic cardiovascular disease..... 27.2 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.9 %  
Chronic pulmonary disease..... 13.2 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 6.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 67.7%  
State ..... 31.6%  
Outside State ..... 0.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 29  
Occupancy Rate ..... 20.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 35.9 %  
Case Mix Index (CMI) ..... 0.9748

### STAFFING:

Total Number of Physicians..... 16  
Percent of Physicians Board  
Certified Specialists ..... 37.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# COVENANT MEDICAL CENTER

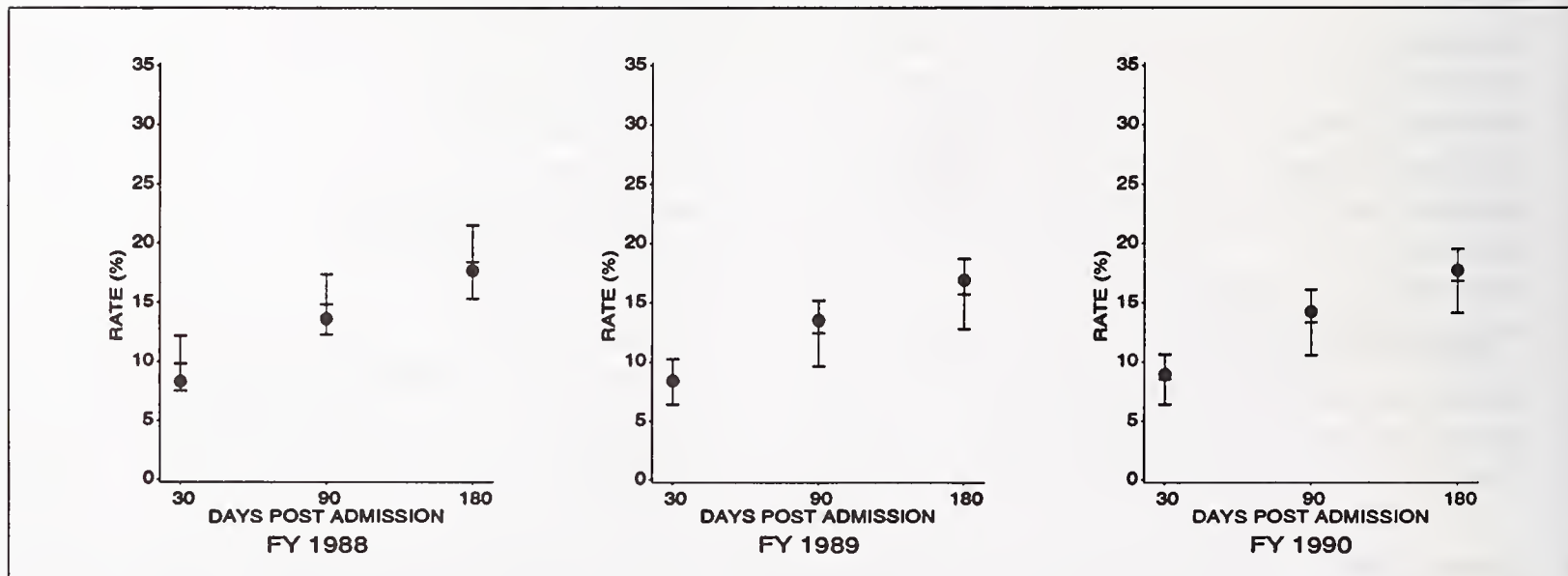
3421 WEST NINTH ST  
WATERLOO, IA 50702  
Medicare Provider Number: 160067

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2380            | 8.9                 | 8.5  | 1.1   | 14.2    | 13.3 | 1.4   | 17.7     | 16.8 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 68              | 25.0                | 23.6 | 5.3   | 29.4    | 26.8 | 6.1   | 30.9     | 29.9 | 5.9   |
| Congestive Heart Failure.....              | 94              | 13.8                | 14.8 | 4.1   | 25.5    | 23.6 | 5.1   | 35.1     | 29.7 | 7.1   |
| Pneumonia/Influenza.....                   | 103             | 11.7                | 12.0 | 3.3   | 18.4    | 16.8 | 5.0   | 25.2     | 20.2 | 5.9   |
| Chronic Obstructive Pulmonary Disease..... | 52              | 7.7                 | 9.1  | 4.5   | 15.4    | 15.6 | 5.5   | 25.0     | 20.6 | 7.9   |
| Transient Cerebral Ischemia.....           | 61              | 4.9                 | 2.1  | 3.0   | 6.6     | 4.7  | 3.1   | 8.2      | 7.3  | 3.4   |
| Stroke.....                                | 116             | 19.0                | 19.4 | 4.3   | 29.3    | 25.2 | 5.9   | 30.2     | 29.0 | 5.1   |
| Hip Fracture.....                          | 61              | 6.6                 | 6.2  | 3.4   | 16.4    | 11.1 | 6.0   | 18.0     | 14.8 | 6.6   |
| Sepsis.....                                | 16              | 25.0                | 29.7 | ----- | 31.3    | 38.7 | ----- | 31.3     | 44.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 13              | 0.0                 | 3.4  | ----- | 0.0     | 6.5  | ----- | 0.0      | 9.2  | ----- |
| Carotid Endarterectomy.....                | 6               | 16.7                | 4.9  | ----- | 16.7    | 9.4  | ----- | 16.7     | 12.5 | ----- |
| Hip Replacement/Reconstruction.....        | 38              | 7.9                 | 2.8  | ----- | 18.4    | 5.2  | ----- | 18.4     | 7.1  | ----- |
| Open Reduction of Hip Fracture.....        | 13              | 0.0                 | 6.5  | ----- | 0.0     | 12.0 | ----- | 7.7      | 16.1 | ----- |
| Prostatectomy.....                         | 91              | 1.1                 | 0.7  | 1.0   | 1.1     | 1.7  | 1.5   | 2.2      | 3.0  | 1.9   |
| Cholecystectomy.....                       | 51              | 2.0                 | 2.2  | 2.1   | 2.0     | 4.4  | 3.7   | 3.9      | 6.1  | 4.0   |
| Hysterectomy.....                          | 23              | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# COVENANT MEDICAL CENTER

Medicare Provider Number: 160067

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.2 years  
Proportion female..... 55.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 95.2 %  
Transferred from skilled nursing facility..... 0.9 %  
Admitted for elective procedure..... 22.5 %  
Admitted for emergency..... 51.4 %

### COMORBIDITIES:

Cancer..... 9.3 %  
Chronic cardiovascular disease..... 32.0 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 4.0 %  
Chronic pulmonary disease..... 16.1 %  
Cerebrovascular degeneration..... 4.1 %  
Diabetes mellitus..... 6.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 71.3%  
State ..... 27.5%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 346  
Occupancy Rate ..... 65.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 31.0 %  
Case Mix Index (CMI) ..... 1.2122

### STAFFING:

Total Number of Physicians..... 127  
Percent of Physicians Board  
Certified Specialists ..... 81.1 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 251  
Licensed Practical Nurses ..... 76

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# CRAWFORD COUNTY MEMORIAL HOSPITAL

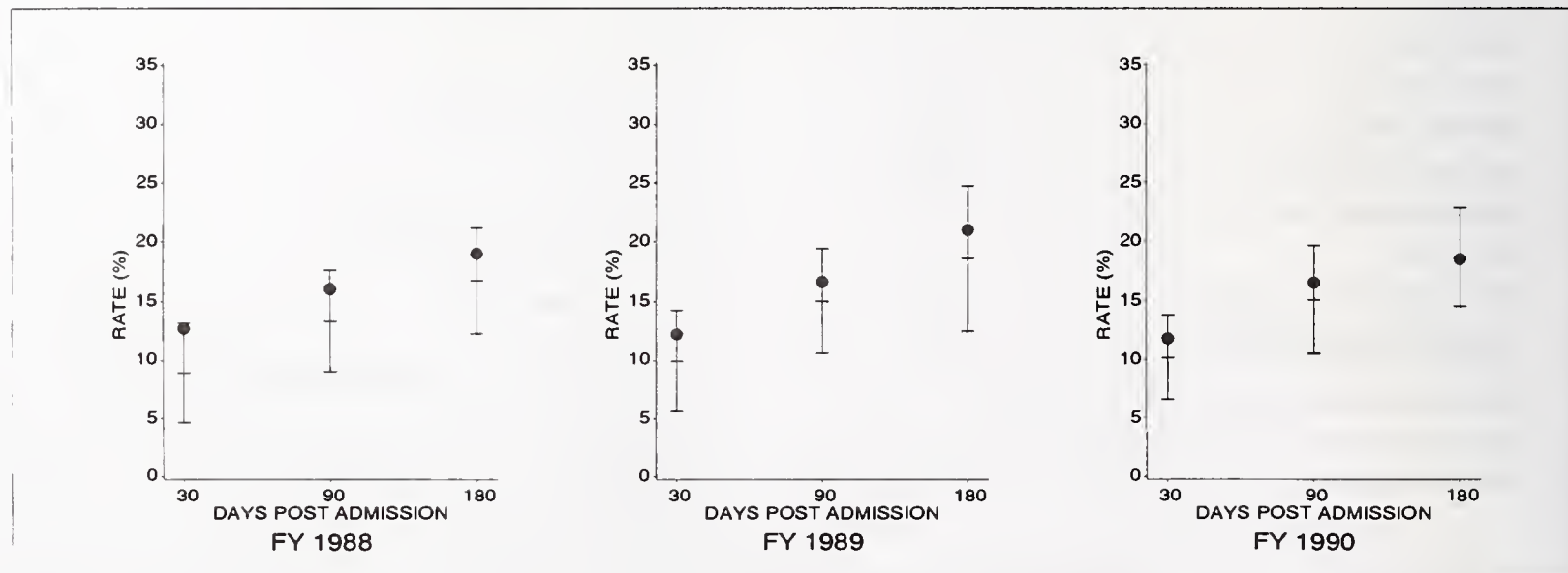
2020 FIRST AVE SOUTH  
DENISON, IA 51442  
Medicare Provider Number: 160014

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 357                | 11.8                | 10.2 | 1.8  | 16.5    | 15.1 | 2.3  | 18.5     | 18.7 | 2.1  |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 11                 | 45.5                | 41.2 | ---- | 45.5    | 45.0 | ---- | 45.5     | 48.9 | ---- |
| Congestive Heart Failure.....              | 36                 | 30.6                | 16.0 | ---- | 47.2    | 25.3 | ---- | 47.2     | 31.9 | ---- |
| Pneumonia/Influenza.....                   | 32                 | 9.4                 | 13.3 | ---- | 12.5    | 18.3 | ---- | 12.5     | 21.7 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 5                  | 20.0                | 3.5  | ---- | 20.0    | 7.2  | ---- | 20.0     | 10.4 | ---- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.7  | ---- | 0.0     | 4.2  | ---- | 0.0      | 7.6  | ---- |
| Stroke.....                                | 19                 | 31.6                | 24.1 | ---- | 42.1    | 30.1 | ---- | 47.4     | 34.0 | ---- |
| Hip Fracture.....                          | 8                  | 12.5                | 3.9  | ---- | 12.5    | 7.0  | ---- | 12.5     | 9.4  | ---- |
| Sepsis.....                                | 1                  | 100.0               | 65.0 | ---- | 100.0   | 76.4 | ---- | 100.0    | 81.3 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 6                  | 0.0                 | 3.4  | ---- | 0.0     | 6.4  | ---- | 0.0      | 8.6  | ---- |
| Prostatectomy.....                         | 13                 | 0.0                 | 0.8  | ---- | 7.7     | 1.9  | ---- | 7.7      | 3.2  | ---- |
| Cholecystectomy.....                       | 1                  | 0.0                 | 0.8  | ---- | 0.0     | 1.7  | ---- | 0.0      | 2.7  | ---- |
| Hysterectomy.....                          | 3                  | 0.0                 | 0.1  | ---- | 0.0     | 0.1  | ---- | 0.0      | 0.2  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# CRAWFORD COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160014

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.4 years  
Proportion female..... 54.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 73.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 6.4 %  
Admitted for emergency..... 70.9 %

### COMORBIDITIES:

Cancer..... 4.8 %  
Chronic cardiovascular disease..... 30.8 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 10.9 %  
Cerebrovascular degeneration..... 2.8 %  
Diabetes mellitus..... 9.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 88.2%  
State ..... 10.6%  
Outside State ..... 1.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 72  
Occupancy Rate ..... 29.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 51.1 %  
Case Mix Index (CMI) ..... 1.0193

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 29  
Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# DALLAS COUNTY HOSPITAL

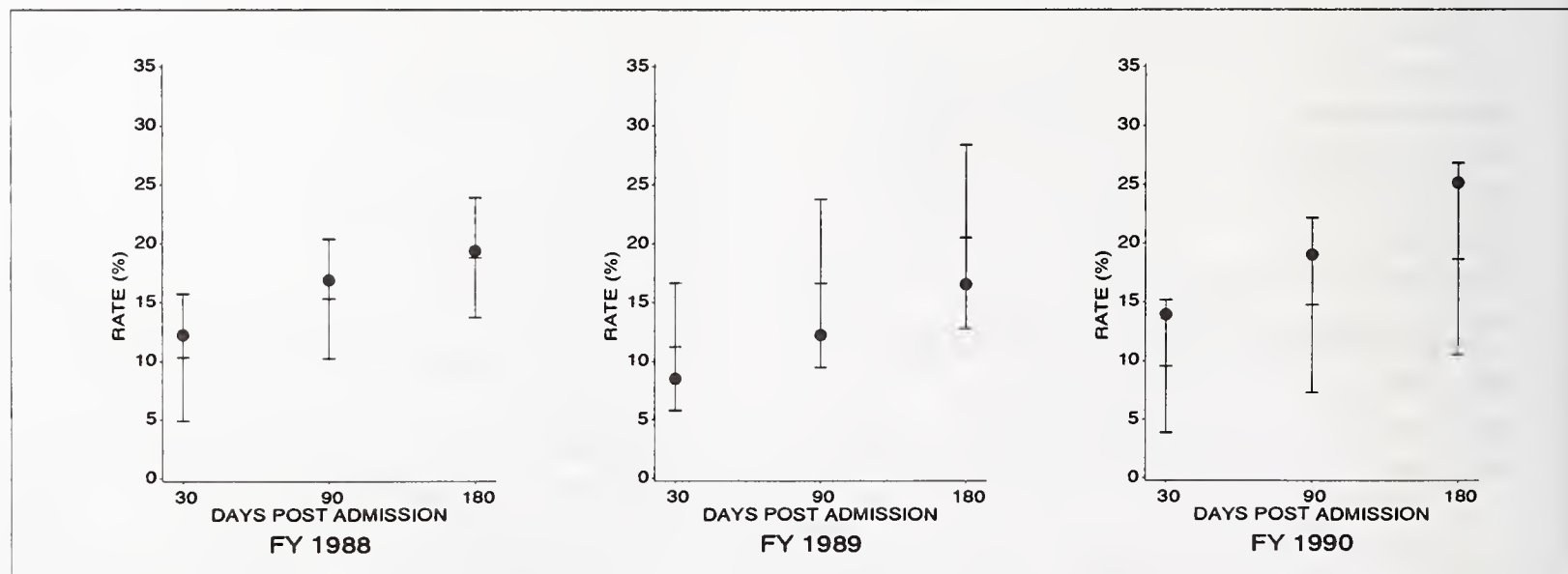
TENTH & IOWA STREETS  
PERRY, IA 50220  
Medicare Provider Number: 160075

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 231             | 13.9                | 9.5  | 2.8   | 19.0    | 14.7 | 3.7   | 25.1     | 18.6 | 4.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 10              | 20.0                | 22.9 | ----- | 20.0    | 28.2 | ----- | 20.0     | 31.9 | ----- |
| Congestive Heart Failure.....              | 10              | 10.0                | 13.0 | ----- | 10.0    | 20.6 | ----- | 10.0     | 27.1 | ----- |
| Pneumonia/Influenza.....                   | 39              | 15.4                | 12.8 | ----- | 15.4    | 17.6 | ----- | 17.9     | 21.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1               | 0.0                 | 4.9  | ----- | 0.0     | 8.5  | ----- | 0.0      | 12.7 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 25.0                | 1.8  | ----- | 25.0    | 4.1  | ----- | 50.0     | 6.9  | ----- |
| Stroke.....                                | 6               | 16.7                | 17.8 | ----- | 33.3    | 27.7 | ----- | 50.0     | 33.4 | ----- |
| Hip Fracture.....                          | 6               | 33.3                | 6.3  | ----- | 33.3    | 12.1 | ----- | 33.3     | 16.2 | ----- |
| Sepsis.....                                | 9               | 55.6                | 19.9 | ----- | 66.7    | 26.1 | ----- | 66.7     | 31.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 1               | 0.0                 | 4.9  | ----- | 0.0     | 9.3  | ----- | 0.0      | 13.5 | ----- |
| Prostatectomy.....                         | 5               | 0.0                 | 1.3  | ----- | 0.0     | 2.9  | ----- | 0.0      | 5.0  | ----- |
| Cholecystectomy.....                       | 5               | 0.0                 | 1.9  | ----- | 0.0     | 3.7  | ----- | 0.0      | 5.3  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DALLAS COUNTY HOSPITAL

Medicare Provider Number: 160075

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.4 years  
Proportion female..... 59.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.9 %  
Admitted for emergency..... 97.8 %

### COMORBIDITIES:

Cancer..... 4.3 %  
Chronic cardiovascular disease..... 30.3 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 4.8 %  
Chronic pulmonary disease..... 16.0 %  
Cerebrovascular degeneration..... 16.0 %  
Diabetes mellitus..... 6.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.5%  
State ..... 15.4%  
Outside State ..... 2.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 53  
Occupancy Rate ..... 18.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 49.2 %  
Case Mix Index (CMI) ..... 1.0479

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 25  
Licensed Practical Nurses ..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# DAVENPORT OSTEOPATHIC HOSPITAL

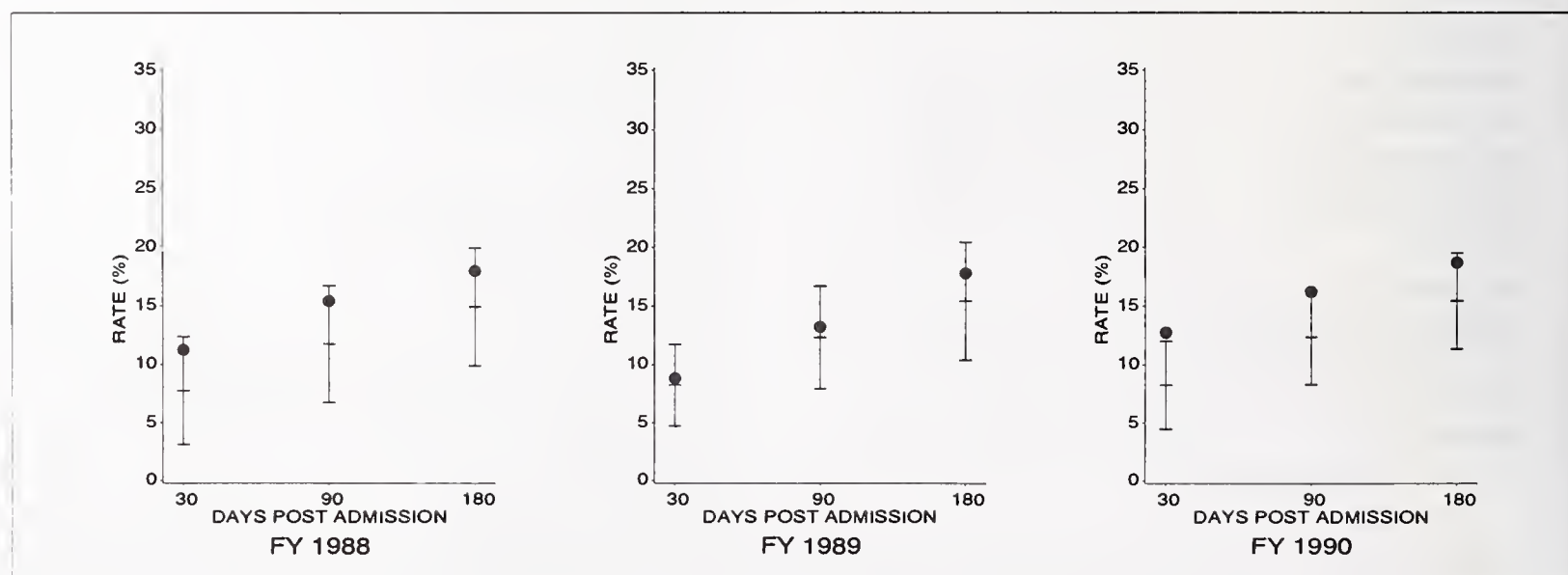
1111 W KIMBERLY RD  
DAVENPORT, IA 52806  
Medicare Provider Number: 160104

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 433             | 12.7                | 8.2  | 1.9   | 16.2    | 12.3 | 2.0   | 18.7     | 15.4 | 2.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13              | 38.5                | 25.7 | ----- | 46.2    | 28.2 | ----- | 46.2     | 30.9 | ----- |
| Congestive Heart Failure.....              | 18              | 22.2                | 14.2 | ----- | 38.9    | 23.3 | ----- | 38.9     | 30.3 | ----- |
| Pneumonia/Influenza.....                   | 30              | 23.3                | 12.4 | ----- | 23.3    | 17.3 | ----- | 26.7     | 20.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 22              | 13.6                | 5.7  | ----- | 13.6    | 10.8 | ----- | 18.2     | 14.5 | ----- |
| Transient Cerebral Ischemia.....           | 14              | 7.1                 | 1.9  | ----- | 7.1     | 4.3  | ----- | 7.1      | 6.8  | ----- |
| Stroke.....                                | 12              | 16.7                | 18.2 | ----- | 25.0    | 24.2 | ----- | 25.0     | 28.0 | ----- |
| Hip Fracture.....                          | 6               | 33.3                | 4.0  | ----- | 33.3    | 7.7  | ----- | 33.3     | 10.2 | ----- |
| Sepsis.....                                | 11              | 27.3                | 18.5 | ----- | 27.3    | 26.8 | ----- | 27.3     | 31.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6               | 16.7                | 1.6  | ----- | 16.7    | 3.1  | ----- | 16.7     | 4.3  | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 1.8  | ----- | 0.0     | 3.7  | ----- | 0.0      | 5.3  | ----- |
| Prostatectomy.....                         | 15              | 0.0                 | 0.8  | ----- | 0.0     | 1.9  | ----- | 0.0      | 3.3  | ----- |
| Cholecystectomy.....                       | 12              | 8.3                 | 2.7  | ----- | 8.3     | 6.1  | ----- | 8.3      | 9.1  | ----- |
| Hysterectomy.....                          | 4               | 0.0                 | 0.1  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# DAVENPORT OSTEOPATHIC HOSPITAL

Medicare Provider Number: 160104

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.3 years

Proportion female..... 59.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.6 %

Transferred from skilled nursing facility..... 0.2 %

Admitted for elective procedure..... 21.9 %

Admitted for emergency..... 71.4 %

### COMORBIDITIES:

Cancer..... 4.6 %

Chronic cardiovascular disease..... 31.6 %

Chronic liver disease..... 0.5 %

Chronic renal disease..... 1.4 %

Chronic pulmonary disease..... 19.6 %

Cerebrovascular degeneration..... 4.6 %

Diabetes mellitus..... 9.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.6%

State ..... 7.9%

Outside State ..... 9.5%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.5 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 150

Occupancy Rate ..... 19.0 %

Ownership/Control..... Private, For Profit

Medicare Discharges ..... 29.4 %

Case Mix Index (CMI) ..... 1.1011

### STAFFING:

Total Number of Physicians..... 49

Percent of Physicians Board  
Certified Specialists..... 55.1 %

Medical Residents/Interns ..... 6

Registered Nurses..... 56

Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care ..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... No

Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# DAVIS COUNTY HOSPITAL

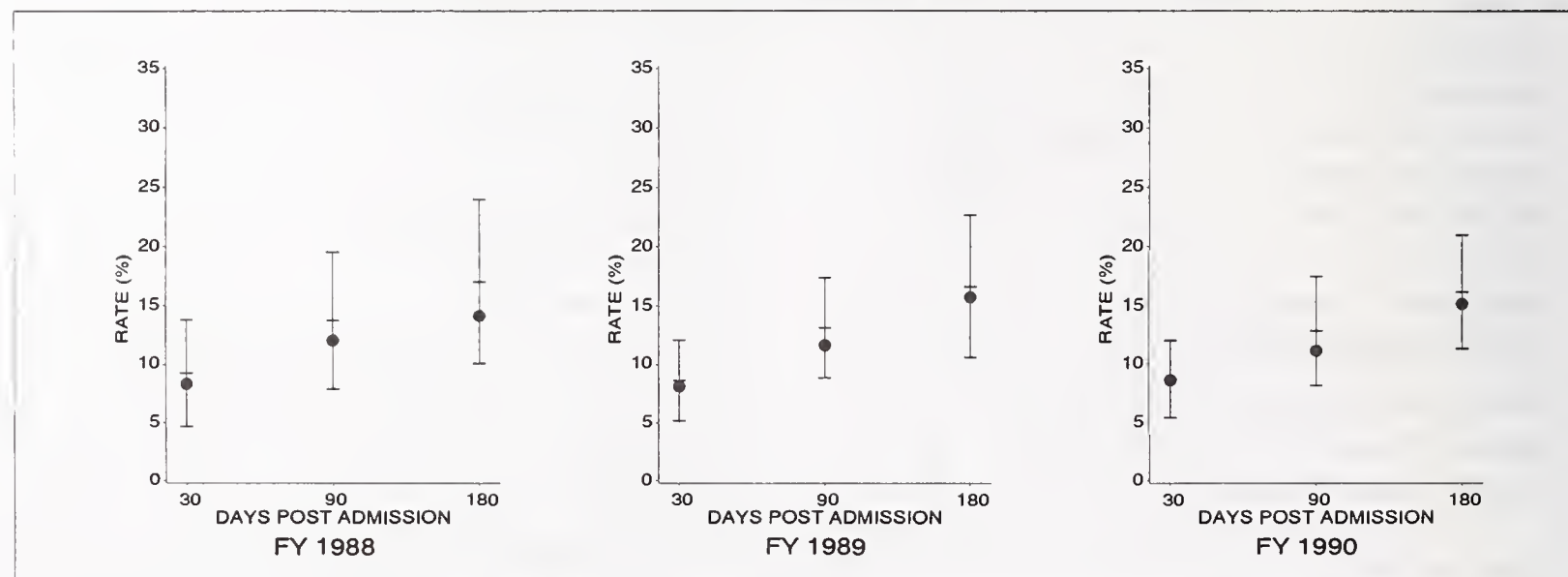
507-509 NORTH MADISON  
BLOOMFIELD, IA 52537  
Medicare Provider Number: 160060

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 350                | 8.6                 | 8.7  | 1.6   | 11.1    | 12.8 | 2.3   | 15.1     | 16.1 | 2.4   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 17                 | 35.3                | 40.9 | ----- | 35.3    | 44.7 | ----- | 41.2     | 48.8 | ----- |
| Congestive Heart Failure.....              | 23                 | 13.0                | 13.3 | ----- | 17.4    | 22.1 | ----- | 34.8     | 28.5 | ----- |
| Pneumonia/Influenza.....                   | 26                 | 11.5                | 13.9 | ----- | 15.4    | 19.1 | ----- | 19.2     | 22.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 8                  | 0.0                 | 5.0  | ----- | 0.0     | 10.2 | ----- | 0.0      | 14.4 | ----- |
| Transient Cerebral Ischemia.....           | 17                 | 5.9                 | 1.8  | ----- | 5.9     | 4.1  | ----- | 5.9      | 7.0  | ----- |
| Stroke.....                                | 16                 | 37.5                | 25.2 | ----- | 37.5    | 32.3 | ----- | 43.8     | 36.4 | ----- |
| Hip Fracture.....                          | 6                  | 33.3                | 9.8  | ----- | 33.3    | 15.4 | ----- | 33.3     | 19.6 | ----- |
| Sepsis.....                                | 4                  | 25.0                | 18.7 | ----- | 50.0    | 24.1 | ----- | 50.0     | 28.0 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 7                  | 0.0                 | 1.7  | ----- | 0.0     | 3.2  | ----- | 0.0      | 4.7  | ----- |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2                  | 0.0                 | 15.9 | ----- | 0.0     | 24.0 | ----- | 0.0      | 29.7 | ----- |
| Prostatectomy.....                         | 9                  | 0.0                 | 1.2  | ----- | 0.0     | 2.9  | ----- | 0.0      | 5.1  | ----- |
| Cholecystectomy.....                       | 13                 | 0.0                 | 1.5  | ----- | 0.0     | 3.1  | ----- | 0.0      | 4.6  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DAVIS COUNTY HOSPITAL

Medicare Provider Number: 160060

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.7 years  
Proportion female..... 54.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 50.3 %

### COMORBIDITIES:

Cancer..... 4.3 %  
Chronic cardiovascular disease..... 29.4 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 5.4 %  
Chronic pulmonary disease..... 23.7 %  
Cerebrovascular degeneration..... 1.4 %  
Diabetes mellitus..... 6.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 53.8%  
State ..... 36.1%  
Outside State ..... 10.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 80  
Occupancy Rate ..... 61.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 61.4 %  
Case Mix Index (CMI) ..... 1.0443

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 41  
Licensed Practical Nurses..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# DECATUR COUNTY HOSPITAL

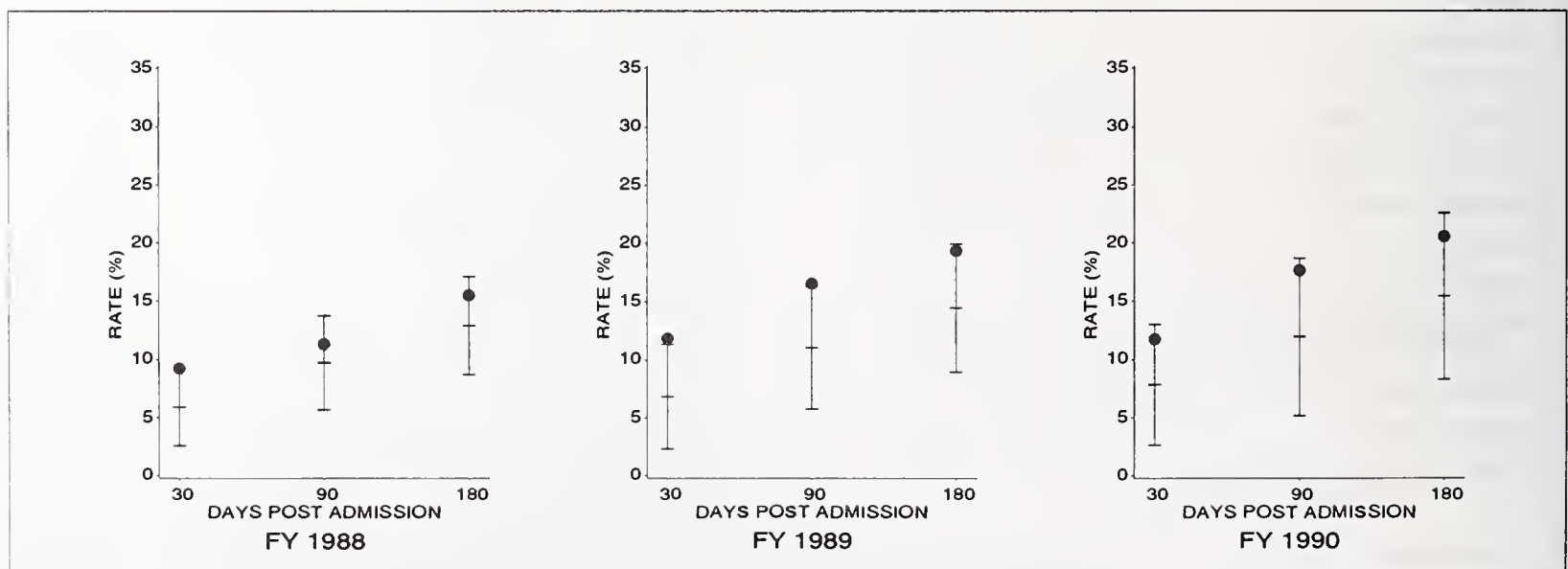
1203 N CHURCH ST  
LEON, IA 50144  
Medicare Provider Number: 160055

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 239                | 11.7                | 7.8  | 2.6   | 17.6    | 11.9 | 3.4   | 20.5     | 15.4 | 3.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 11                 | 54.5                | 23.8 | ----- | 63.6    | 28.8 | ----- | 63.6     | 32.6 | ----- |
| Congestive Heart Failure.....              | 14                 | 7.1                 | 12.4 | ----- | 21.4    | 20.1 | ----- | 28.6     | 26.6 | ----- |
| Pneumonia/Influenza.....                   | 14                 | 14.3                | 15.9 | ----- | 14.3    | 22.3 | ----- | 14.3     | 26.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 15                 | 6.7                 | 5.4  | ----- | 20.0    | 9.4  | ----- | 20.0     | 12.7 | ----- |
| Transient Cerebral Ischemia.....           | 4                  | 0.0                 | 2.9  | ----- | 0.0     | 7.7  | ----- | 0.0      | 13.0 | ----- |
| Stroke.....                                | 4                  | 50.0                | 26.7 | ----- | 50.0    | 32.9 | ----- | 50.0     | 37.4 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4                  | 0.0                 | 11.7 | ----- | 25.0    | 16.1 | ----- | 25.0     | 20.7 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 0.0                 | 2.0  | ----- | 33.3    | 4.4  | ----- | 33.3     | 6.8  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 4.8  | ----- | 0.0     | 10.4 | ----- | 0.0      | 15.5 | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm$ 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DECATUR COUNTY HOSPITAL

Medicare Provider Number: 160055

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.9 years  
Proportion female..... 55.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 31.4 %  
Admitted for emergency..... 67.8 %

### COMORBIDITIES:

Cancer..... 5.4 %  
Chronic cardiovascular disease..... 28.9 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 1.3 %  
Chronic pulmonary disease..... 8.8 %  
Cerebrovascular degeneration..... 6.3 %  
Diabetes mellitus..... 7.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 67.8%  
State ..... 15.7%  
Outside State ..... 16.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.3 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 50  
Occupancy Rate ..... 30.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 57.6 %  
Case Mix Index (CMI) ..... 0.9917

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists ..... 40.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 21  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# DELAWARE COUNTY MEMORIAL HOSPITAL

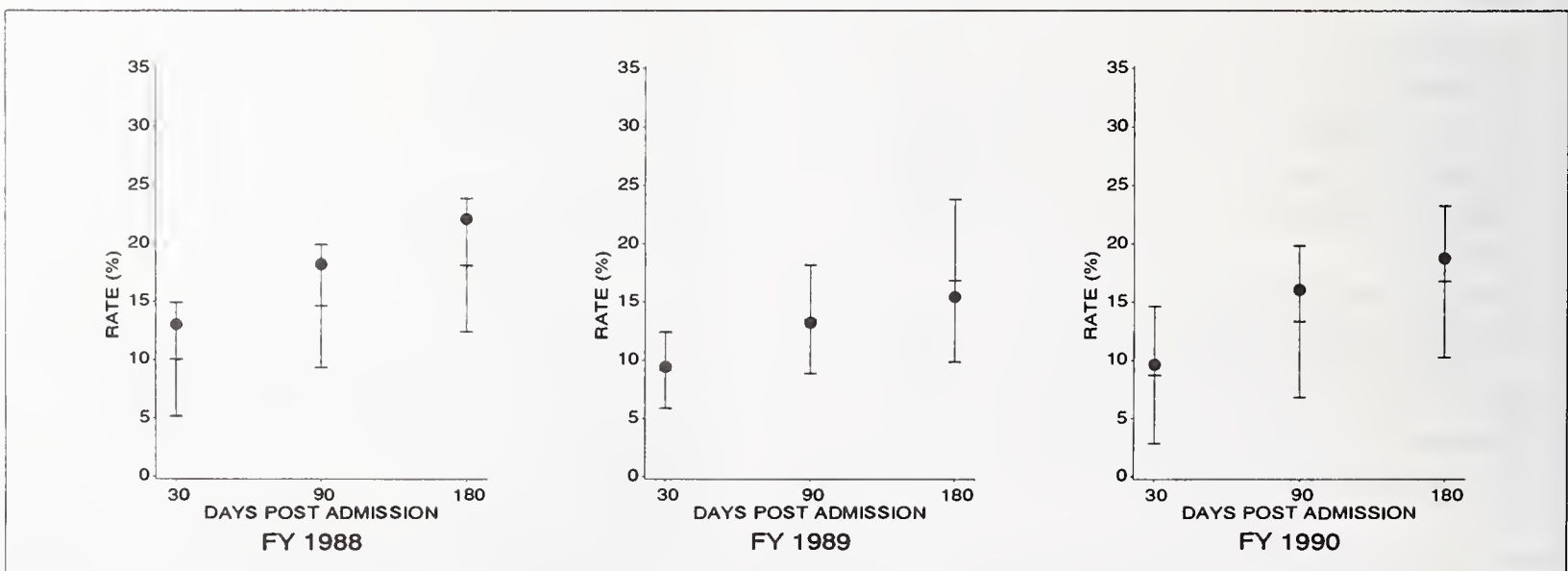
709 W MAIN ST  
MANCHESTER, IA 52057  
Medicare Provider Number: 160009

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 363                | 9.6                 | 8.7  | 2.9   | 16.0    | 13.3 | 3.3   | 18.7     | 16.7 | 3.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 17                 | 23.5                | 22.9 | ----- | 29.4    | 26.9 | ----- | 41.2     | 29.9 | ----- |
| Congestive Heart Failure.....              | 22                 | 13.6                | 17.8 | ----- | 45.5    | 27.9 | ----- | 50.0     | 34.0 | ----- |
| Pneumonia/Influenza.....                   | 32                 | 12.5                | 12.8 | ----- | 18.8    | 17.4 | ----- | 18.8     | 20.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9                  | 0.0                 | 6.9  | ----- | 55.6    | 12.2 | ----- | 55.6     | 16.1 | ----- |
| Transient Cerebral Ischemia.....           | 6                  | 0.0                 | 2.2  | ----- | 0.0     | 4.9  | ----- | 0.0      | 8.2  | ----- |
| Stroke.....                                | 14                 | 35.7                | 24.5 | ----- | 42.9    | 31.0 | ----- | 50.0     | 34.8 | ----- |
| Hip Fracture.....                          | 14                 | 0.0                 | 7.6  | ----- | 0.0     | 13.8 | ----- | 0.0      | 18.1 | ----- |
| Sepsis.....                                | 2                  | 50.0                | 5.6  | ----- | 50.0    | 7.9  | ----- | 50.0     | 10.3 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 7                  | 0.0                 | 7.1  | ----- | 0.0     | 13.2 | ----- | 0.0      | 17.6 | ----- |
| Open Reduction of Hip Fracture.....        | 3                  | 0.0                 | 7.4  | ----- | 0.0     | 14.7 | ----- | 0.0      | 19.9 | ----- |
| Prostatectomy.....                         | 3                  | 0.0                 | 0.5  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.5  | ----- |
| Cholecystectomy.....                       | 8                  | 0.0                 | 0.7  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.5  | ----- |
| Hysterectomy.....                          | 7                  | 0.0                 | 1.0  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# DELAWARE COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160009

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 56.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 66.7 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 11.6 %  
Admitted for emergency..... 21.2 %

### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 38.3 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 13.5 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 6.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 62.4%  
State..... 36.8%  
Outside State..... 0.8%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.9 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 86  
Occupancy Rate..... 60.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 45.8 %  
Case Mix Index (CMI)..... 1.1008

### STAFFING:

Total Number of Physicians..... 14  
Percent of Physicians Board  
Certified Specialists..... 71.4 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 48  
Licensed Practical Nurses..... 3

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# DES MOINES GENERAL HOSPITAL

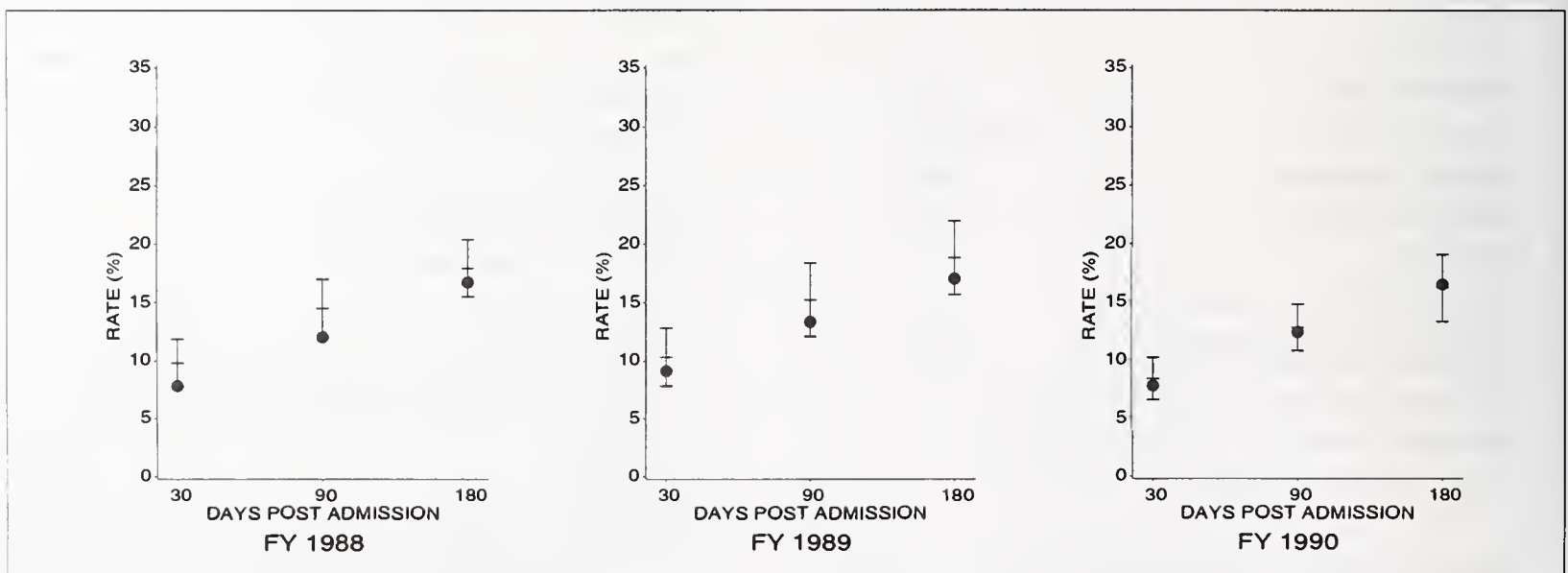
603 EAST 12TH STREET  
DES MOINES, IA 50307  
Medicare Provider Number: 160102

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1288            | 7.8                 | 8.4  | 0.9   | 12.4    | 12.8 | 1.0   | 16.5     | 16.2 | 1.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 40              | 25.0                | 26.1 | ----- | 30.0    | 28.9 | ----- | 30.0     | 31.4 | ----- |
| Congestive Heart Failure.....              | 54              | 14.8                | 14.4 | 6.0   | 25.9    | 23.1 | 6.1   | 29.6     | 29.7 | 6.8   |
| Pneumonia/Influenza.....                   | 42              | 16.7                | 15.4 | ----- | 19.0    | 21.3 | ----- | 26.2     | 25.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 19              | 15.8                | 12.3 | ----- | 26.3    | 20.7 | ----- | 26.3     | 26.4 | ----- |
| Transient Cerebral Ischemia.....           | 22              | 4.5                 | 2.2  | ----- | 4.5     | 5.0  | ----- | 4.5      | 8.1  | ----- |
| Stroke.....                                | 44              | 20.5                | 21.1 | ----- | 25.0    | 26.6 | ----- | 25.0     | 30.1 | ----- |
| Hip Fracture.....                          | 30              | 3.3                 | 5.9  | ----- | 10.0    | 10.9 | ----- | 20.0     | 14.5 | ----- |
| Sepsis.....                                | 8               | 25.0                | 24.3 | ----- | 25.0    | 30.9 | ----- | 37.5     | 35.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 8               | 0.0                 | 5.7  | ----- | 12.5    | 7.2  | ----- | 12.5     | 8.3  | ----- |
| Coronary Artery Bypass Graft.....          | 25              | 4.0                 | 6.4  | ----- | 4.0     | 8.6  | ----- | 4.0      | 9.7  | ----- |
| Initial Pacemaker Insertion.....           | 10              | 10.0                | 2.4  | ----- | 10.0    | 5.2  | ----- | 10.0     | 7.9  | ----- |
| Carotid Endarterectomy.....                | 2               | 0.0                 | 1.3  | ----- | 0.0     | 2.7  | ----- | 0.0      | 4.3  | ----- |
| Hip Replacement/Reconstruction.....        | 23              | 4.3                 | 3.9  | ----- | 8.7     | 7.7  | ----- | 13.0     | 10.8 | ----- |
| Open Reduction of Hip Fracture.....        | 10              | 0.0                 | 7.3  | ----- | 10.0    | 13.8 | ----- | 10.0     | 18.0 | ----- |
| Prostatectomy.....                         | 34              | 0.0                 | 1.4  | ----- | 0.0     | 3.1  | ----- | 5.9      | 5.3  | ----- |
| Cholecystectomy.....                       | 23              | 4.3                 | 2.9  | ----- | 4.3     | 5.5  | ----- | 13.0     | 7.3  | ----- |
| Hysterectomy.....                          | 14              | 0.0                 | 0.9  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DES MOINES GENERAL HOSPITAL

Medicare Provider Number: 160102

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.0 years  
Proportion female..... 60.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 43.2 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 5.7 %  
Admitted for emergency..... 54.3 %

### COMORBIDITIES:

Cancer..... 5.7 %  
Chronic cardiovascular disease..... 31.0 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 15.5 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 9.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 59.1%  
State ..... 38.9%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 165  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 43.8 %  
Case Mix Index (CMI) ..... 1.2696

### STAFFING:

Total Number of Physicians..... 158  
Percent of Physicians Board  
Certified Specialists ..... 69.0 %  
Medical Residents/Interns ..... 29  
Registered Nurses..... 107  
Licensed Practical Nurses ..... 35

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# DEWITT COMMUNITY HOSPITAL

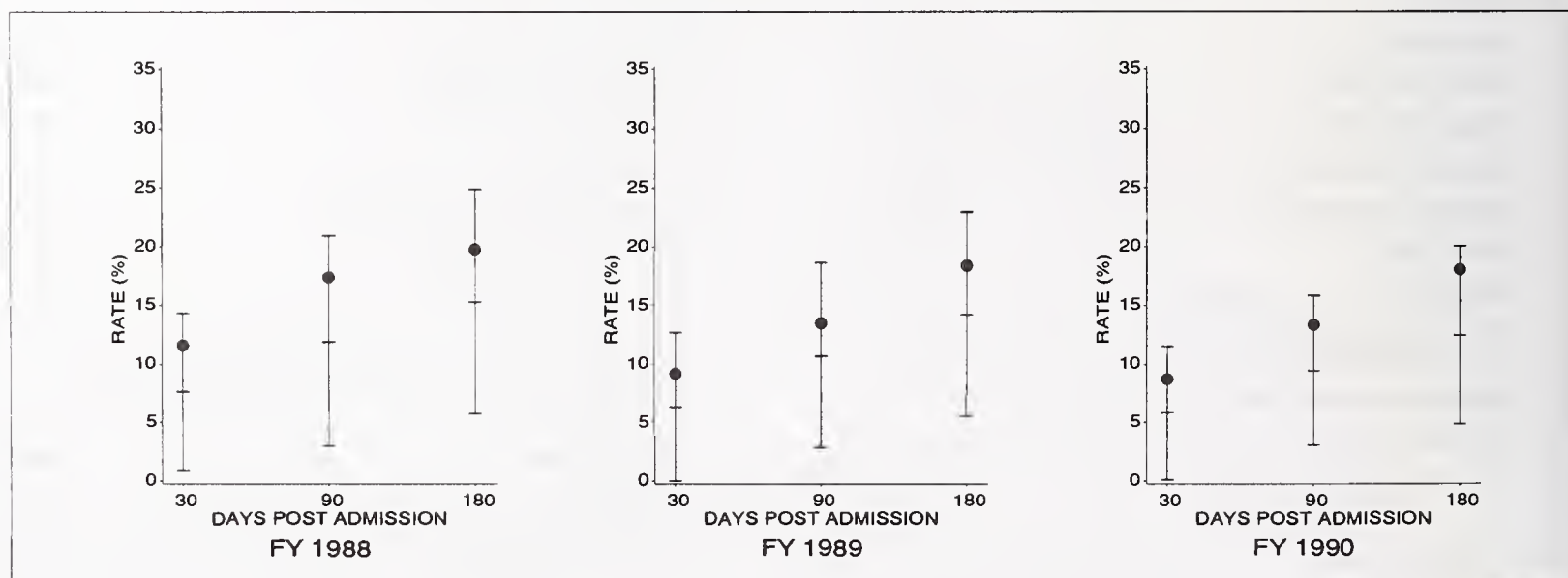
1118-11TH ST  
DE WITT, IA 52742  
Medicare Provider Number: 160062

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 150             | 8.7                 | 5.8  | 2.9   | 13.3    | 9.4  | 3.2   | 18.0     | 12.4 | 3.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6               | 16.7                | 19.4 | ----- | 16.7    | 23.4 | ----- | 16.7     | 26.5 | ----- |
| Congestive Heart Failure.....              | 8               | 25.0                | 13.5 | ----- | 37.5    | 22.4 | ----- | 37.5     | 28.5 | ----- |
| Pneumonia/Influenza.....                   | 13              | 23.1                | 14.9 | ----- | 38.5    | 21.3 | ----- | 46.2     | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 0.0                 | 1.9  | ----- | 0.0     | 4.1  | ----- | 0.0      | 6.5  | ----- |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 6               | 16.7                | 10.6 | ----- | 16.7    | 16.8 | ----- | 16.7     | 21.9 | ----- |
| Hip Fracture.....                          | 6               | 0.0                 | 2.4  | ----- | 0.0     | 4.8  | ----- | 16.7     | 7.1  | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 4               | 0.0                 | 2.2  | ----- | 0.0     | 4.9  | ----- | 0.0      | 7.3  | ----- |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 2.5  | ----- | 0.0     | 4.8  | ----- | 50.0     | 7.1  | ----- |
| Prostatectomy.....                         | 4               | 0.0                 | 0.4  | ----- | 0.0     | 1.1  | ----- | 25.0     | 2.1  | ----- |
| Cholecystectomy.....                       | 5               | 0.0                 | 0.7  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.3  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# DEWITT COMMUNITY HOSPITAL

Medicare Provider Number: 160062

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.5 years  
Proportion female..... 68.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.3 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 98.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 5.3 %  
Chronic cardiovascular disease..... 32.0 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 16.7 %  
Cerebrovascular degeneration..... 5.3 %  
Diabetes mellitus..... 4.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 91.4%  
State ..... 5.9%  
Outside State ..... 2.7%  
-----  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 74  
Occupancy Rate ..... 81.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 38.0 %  
Case Mix Index (CMI) ..... 0.9786

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists ..... 71.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 16  
Licensed Practical Nurses ..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# DICKINSON COUNTY MEMORIAL HOSPITAL

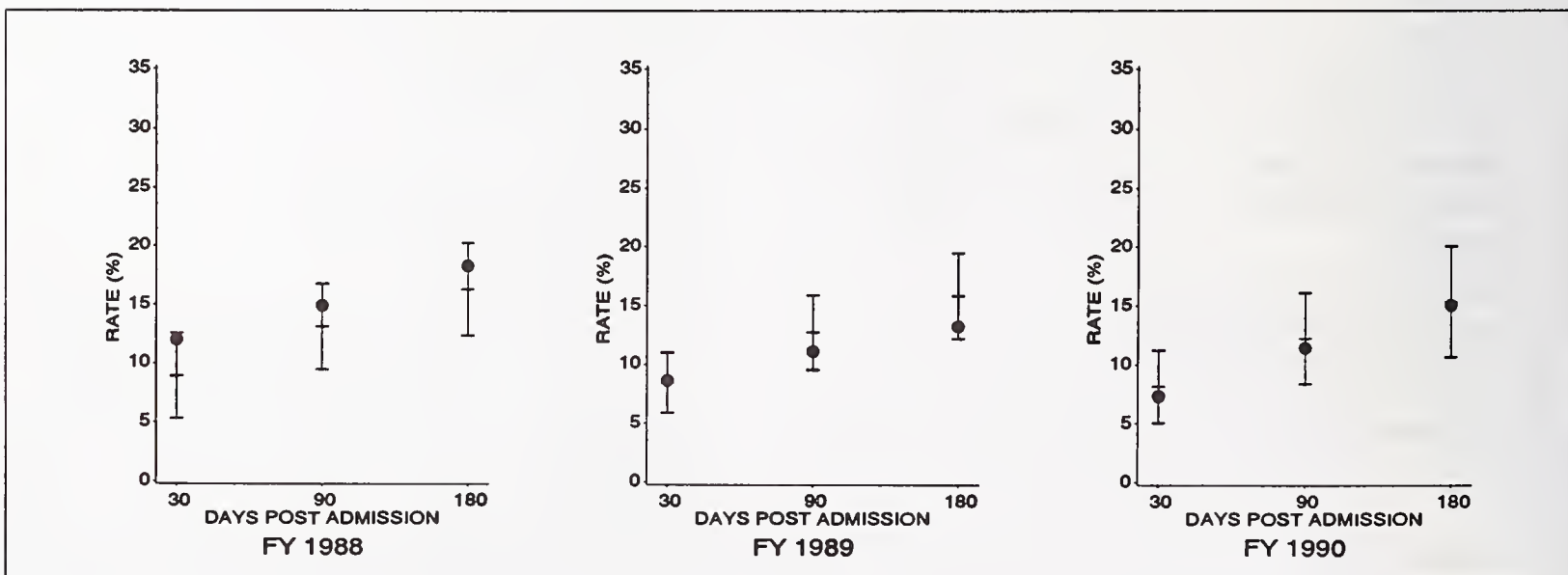
HWY 71 SOUTH, BOX AB  
SPIRIT LAKE, IA 51360  
Medicare Provider Number: 160124

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 439             | 7.3                 | 8.1  | 1.6   | 11.4    | 12.2 | 1.9   | 15.0     | 15.3 | 2.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 20.0                | 29.2 | ----- | 40.0    | 32.5 | ----- | 40.0     | 35.7 | ----- |
| Congestive Heart Failure.....              | 25              | 8.0                 | 12.4 | ----- | 16.0    | 19.6 | ----- | 24.0     | 25.5 | ----- |
| Pneumonia/Influenza.....                   | 44              | 13.6                | 13.1 | ----- | 20.5    | 17.8 | ----- | 25.0     | 21.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 5               | 0.0                 | 5.5  | ----- | 0.0     | 9.6  | ----- | 0.0      | 12.7 | ----- |
| Transient Cerebral ischemia.....           | 10              | 10.0                | 3.5  | ----- | 10.0    | 7.4  | ----- | 10.0     | 10.7 | ----- |
| Stroke.....                                | 17              | 17.6                | 22.6 | ----- | 23.5    | 30.2 | ----- | 29.4     | 34.3 | ----- |
| Hip Fracture.....                          | 40              | 7.5                 | 7.3  | ----- | 10.0    | 12.5 | ----- | 17.5     | 16.0 | ----- |
| Sepsis.....                                | 6               | 16.7                | 22.7 | ----- | 33.3    | 30.9 | ----- | 33.3     | 35.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 1.4  | ----- | 0.0     | 3.8  | ----- | 0.0      | 7.0  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 19              | 0.0                 | 4.3  | ----- | 0.0     | 8.0  | ----- | 5.3      | 10.8 | ----- |
| Open Reduction of Hip Fracture.....        | 6               | 16.7                | 4.5  | ----- | 16.7    | 8.7  | ----- | 16.7     | 11.7 | ----- |
| Prostatectomy.....                         | 9               | 0.0                 | 0.5  | ----- | 0.0     | 1.3  | ----- | 0.0      | 2.5  | ----- |
| Cholecystectomy.....                       | 9               | 0.0                 | 1.7  | ----- | 0.0     | 3.5  | ----- | 0.0      | 4.9  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.1  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# DICKINSON COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160124

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.6 years

Proportion female..... 63.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 83.6 %

Transferred from skilled nursing facility..... 0.0 %

Admitted for elective procedure..... 10.7 %

Admitted for emergency..... 36.4 %

### COMORBIDITIES:

Cancer..... 6.8 %

Chronic cardiovascular disease..... 38.0 %

Chronic liver disease..... 0.0 %

Chronic renal disease..... 1.1 %

Chronic pulmonary disease..... 12.1 %

Cerebrovascular degeneration..... 4.1 %

Diabetes mellitus..... 5.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 70.3%

State ..... 17.9%

Outside State ..... 11.8%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.2 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 49

Occupancy Rate ..... 42.0 %

Ownership/Control..... Local Government

Medicare Discharges ..... 49.5 %

Case Mix Index (CMI) ..... 1.1649

### STAFFING:

Total Number of Physicians..... 15

Percent of Physicians Board  
Certified Specialists..... 66.7 %

Medical Residents/Interns ..... 0

Registered Nurses..... 40

Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care ..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... No

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ELDORA COMMUNITY HOSPITAL

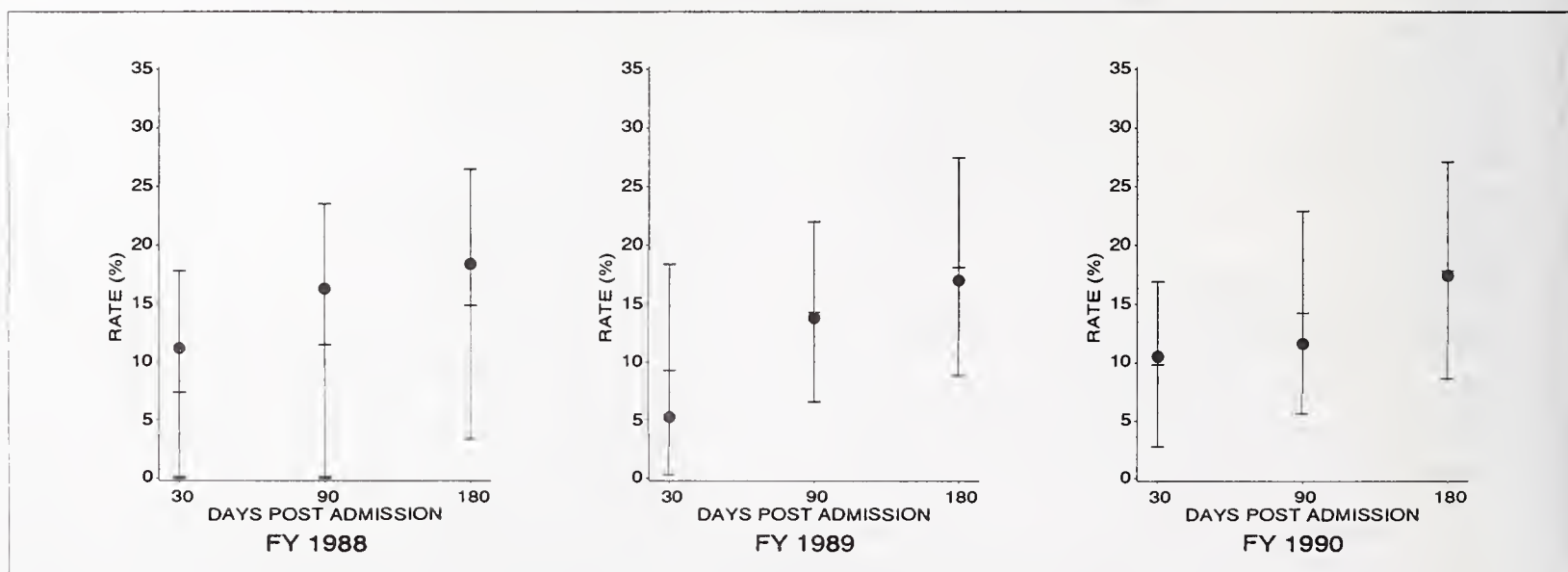
2413 EDGINGTON AVE  
ELDORA, IA 50627  
Medicare Provider Number: 160085

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 86                 | 10.5                | 9.8  | 3.5   | 11.6    | 14.2 | 4.3   | 17.4     | 17.8 | 4.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2                  | 50.0                | 34.9 | ----- | 50.0    | 37.9 | ----- | 100.0    | 40.8 | ----- |
| Congestive Heart Failure.....              | 6                  | 0.0                 | 12.6 | ----- | 0.0     | 19.2 | ----- | 16.7     | 25.3 | ----- |
| Pneumonia/Influenza.....                   | 13                 | 7.7                 | 17.2 | ----- | 15.4    | 23.5 | ----- | 23.1     | 28.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 5                  | 20.0                | 4.4  | ----- | 20.0    | 9.1  | ----- | 20.0     | 13.0 | ----- |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 5                  | 20.0                | 17.7 | ----- | 20.0    | 22.4 | ----- | 20.0     | 25.7 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1                  | 0.0                 | 17.3 | ----- | 0.0     | 26.2 | ----- | 0.0      | 31.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 2                  | 50.0                | 14.0 | ----- | 50.0    | 18.9 | ----- | 50.0     | 19.9 | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ELDORA COMMUNITY HOSPITAL

Medicare Provider Number: 160085

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.5 years  
Proportion female..... 55.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 51.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 16.3 %  
Admitted for emergency..... 29.1 %

### COMORBIDITIES:

Cancer..... 2.3 %  
Chronic cardiovascular disease..... 38.4 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.2 %  
Chronic pulmonary disease..... 17.4 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 15.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 91.3%  
State ..... 7.1%  
Outside State ..... 1.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 34  
Occupancy Rate ..... 29.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 33.7 %  
Case Mix Index (CMI) ..... 1.0634

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists ..... (Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 11  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# ELLSWORTH MUNICIPAL HOSPITAL

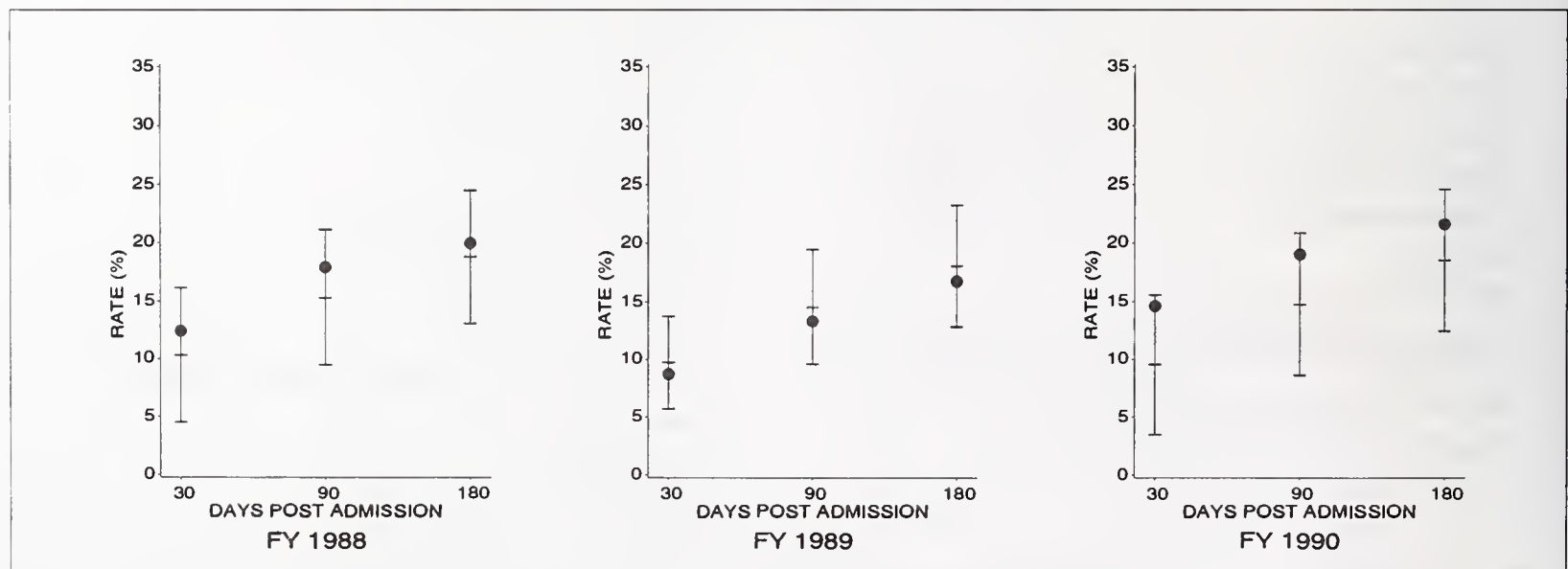
110 ROCKSYLVANIA AVE  
IOWA FALLS, IA 50126  
Medicare Provider Number: 160034

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 268             | 14.6                | 9.5  | 3.0   | 19.0    | 14.7 | 3.1   | 21.6     | 18.5 | 3.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 11              | 45.5                | 28.4 | ----- | 45.5    | 32.7 | ----- | 54.5     | 36.3 | ----- |
| Congestive Heart Failure.....              | 13              | 30.8                | 15.4 | ----- | 46.2    | 25.0 | ----- | 46.2     | 32.3 | ----- |
| Pneumonia/Influenza.....                   | 21              | 19.0                | 11.5 | ----- | 28.6    | 15.6 | ----- | 28.6     | 19.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 8               | 0.0                 | 4.8  | ----- | 12.5    | 9.4  | ----- | 37.5     | 13.2 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 3.0  | ----- | 0.0     | 6.4  | ----- | 0.0      | 9.4  | ----- |
| Stroke.....                                | 16              | 18.8                | 21.5 | ----- | 18.8    | 29.3 | ----- | 18.8     | 34.3 | ----- |
| Hip Fracture.....                          | 5               | 20.0                | 4.1  | ----- | 20.0    | 7.9  | ----- | 20.0     | 11.3 | ----- |
| Sepsis.....                                | 1               | 100.0               | 74.0 | ----- | 100.0   | 87.8 | ----- | 100.0    | 91.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2               | 50.0                | 4.6  | ----- | 50.0    | 9.8  | ----- | 50.0     | 14.2 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 9               | 0.0                 | 0.9  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.2  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.4  | ----- | 33.3    | 0.8  | ----- | 33.3     | 1.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ELLSWORTH MUNICIPAL HOSPITAL

Medicare Provider Number: 160034

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.8 years  
Proportion female..... 59.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.7 %

### COMORBIDITIES:

Cancer..... 9.7 %  
Chronic cardiovascular disease..... 36.2 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 13.1 %  
Cerebrovascular degeneration..... 4.1 %  
Diabetes mellitus..... 9.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 84.5%  
State ..... 15.0%  
Outside State ..... 0.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 42  
Occupancy Rate ..... 47.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 45.9 %  
Case Mix Index (CMI) ..... 1.0236

### STAFFING:

Total Number of Physicians..... 10  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 22  
Licensed Practical Nurses ..... 8

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

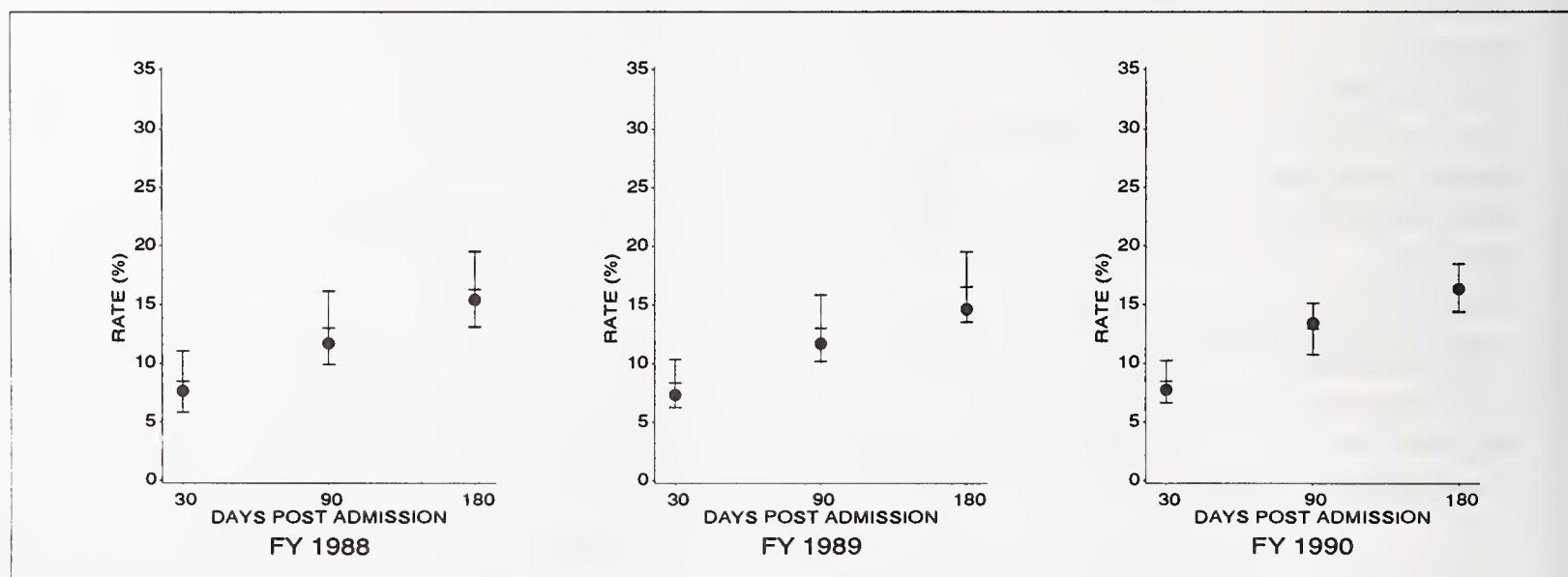
**FINLEY HOSPITAL**  
 350 N GRANDVIEW  
 DUBUQUE, IA 52001  
 Medicare Provider Number: 160117

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1383               | 7.7                 | 8.4  | 0.9   | 13.4    | 12.9 | 1.1   | 16.3     | 16.4 | 1.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 32                 | 34.4                | 28.2 | ----- | 34.4    | 31.1 | ----- | 43.8     | 34.1 | ----- |
| Congestive Heart Failure.....              | 81                 | 12.3                | 12.9 | 3.8   | 23.5    | 20.1 | 5.4   | 24.7     | 26.1 | 5.9   |
| Pneumonia/Influenza.....                   | 49                 | 12.2                | 16.4 | ----- | 20.4    | 22.9 | ----- | 22.4     | 27.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 26                 | 7.7                 | 8.9  | ----- | 23.1    | 15.0 | ----- | 30.8     | 20.1 | ----- |
| Transient Cerebral Ischemia.....           | 16                 | 12.5                | 1.4  | ----- | 12.5    | 3.4  | ----- | 18.8     | 5.8  | ----- |
| Stroke.....                                | 41                 | 24.4                | 21.2 | ----- | 31.7    | 27.0 | ----- | 31.7     | 30.6 | ----- |
| Hip Fracture.....                          | 38                 | 7.9                 | 7.2  | ----- | 13.2    | 12.9 | ----- | 15.8     | 16.9 | ----- |
| Sepsis.....                                | 10                 | 10.0                | 26.2 | ----- | 30.0    | 33.5 | ----- | 30.0     | 38.9 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 6                  | 0.0                 | 3.5  | ----- | 0.0     | 7.6  | ----- | 0.0      | 11.6 | ----- |
| Carotid Endarterectomy.....                | 8                  | 0.0                 | 1.5  | ----- | 0.0     | 2.8  | ----- | 0.0      | 4.1  | ----- |
| Hip Replacement/Reconstruction.....        | 58                 | 1.7                 | 2.2  | 2.0   | 3.4     | 4.4  | 2.8   | 6.9      | 6.1  | 3.2   |
| Open Reduction of Hip Fracture.....        | 23                 | 13.0                | 6.1  | ----- | 17.4    | 10.9 | ----- | 17.4     | 14.2 | ----- |
| Prostatectomy.....                         | 43                 | 0.0                 | 0.9  | ----- | 0.0     | 2.3  | ----- | 0.0      | 4.1  | ----- |
| Cholecystectomy.....                       | 15                 | 0.0                 | 1.9  | ----- | 0.0     | 3.7  | ----- | 6.7      | 5.1  | ----- |
| Hysterectomy.....                          | 11                 | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
 FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**





**FINLEY HOSPITAL**  
Medicare Provider Number: 160117

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 74.4 years  
Proportion female..... 54.7 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 40.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 18.1 %  
Admitted for emergency..... 30.6 %

**COMORBIDITIES:**

Cancer..... 9.8 %  
Chronic cardiovascular disease..... 32.2 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 3.2 %  
Chronic pulmonary disease..... 13.8 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 7.1 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 66.1%  
State ..... 13.2%  
Outside State ..... 20.7%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 7.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 158  
Occupancy Rate ..... 53.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 43.6 %  
Case Mix Index (CMI) ..... 1.2871

**STAFFING:**

Total Number of Physicians..... 118  
Percent of Physicians Board  
Certified Specialists ..... 87.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 159  
Licensed Practical Nurses ..... 24

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... Yes

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# FLOYD COUNTY MEMORIAL HOSPITAL

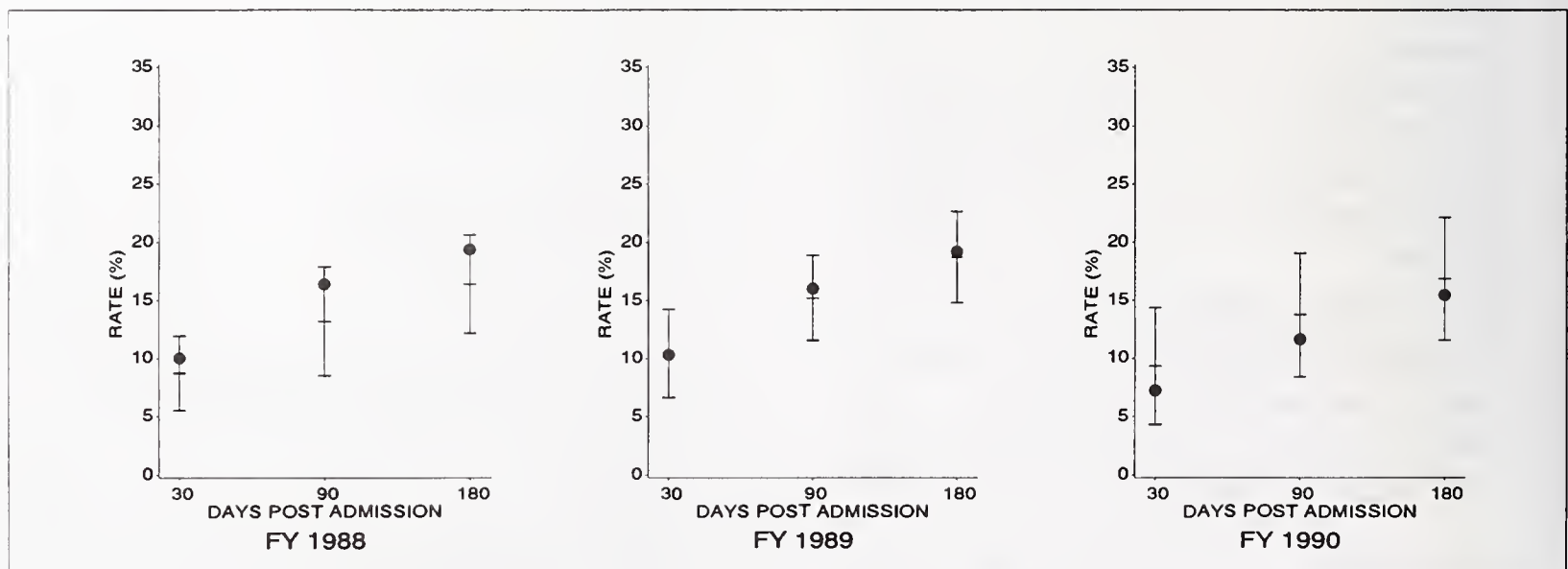
11TH & S MAIN ST  
CHARLES CITY, IA 50616  
Medicare Provider Number: 160037

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 447             | 7.2                 | 9.3  | 2.5  | 11.6    | 13.7 | 2.7  | 15.4     | 16.8 | 2.7  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 21              | 23.8                | 25.8 | ---- | 23.8    | 29.3 | ---- | 28.6     | 32.5 | ---- |
| Congestive Heart Failure.....              | 19              | 10.5                | 15.6 | ---- | 15.8    | 23.4 | ---- | 15.8     | 29.1 | ---- |
| Pneumonia/Influenza.....                   | 40              | 5.0                 | 14.6 | ---- | 10.0    | 20.2 | ---- | 17.5     | 23.8 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 13              | 7.7                 | 4.6  | ---- | 15.4    | 8.8  | ---- | 15.4     | 12.6 | ---- |
| Transient Cerebral Ischemia.....           | 8               | 0.0                 | 2.4  | ---- | 12.5    | 5.8  | ---- | 12.5     | 9.9  | ---- |
| Stroke.....                                | 17              | 11.8                | 18.4 | ---- | 17.6    | 24.0 | ---- | 17.6     | 27.5 | ---- |
| Hip Fracture.....                          | 15              | 0.0                 | 4.1  | ---- | 0.0     | 7.4  | ---- | 6.7      | 10.0 | ---- |
| Sepsis.....                                | 5               | 20.0                | 17.4 | ---- | 20.0    | 21.7 | ---- | 20.0     | 25.1 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 7               | 0.0                 | 4.7  | ---- | 0.0     | 8.5  | ---- | 0.0      | 11.5 | ---- |
| Open Reduction of Hip Fracture.....        | 6               | 0.0                 | 3.0  | ---- | 0.0     | 5.7  | ---- | 16.7     | 7.8  | ---- |
| Prostatectomy.....                         | 14              | 0.0                 | 2.1  | ---- | 7.1     | 4.3  | ---- | 7.1      | 6.9  | ---- |
| Cholecystectomy.....                       | 6               | 0.0                 | 1.1  | ---- | 0.0     | 1.9  | ---- | 0.0      | 2.6  | ---- |
| Hysterectomy.....                          | 9               | 0.0                 | 1.2  | ---- | 0.0     | 2.6  | ---- | 0.0      | 4.2  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FLOYD COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160037

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.0 years  
Proportion female..... 56.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 67.3 %

### COMORBIDITIES:

Cancer..... 5.1 %  
Chronic cardiovascular disease..... 41.6 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 16.1 %  
Cerebrovascular degeneration..... 2.2 %  
Diabetes mellitus..... 7.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 72.3%  
State ..... 26.8%  
Outside State ..... 0.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 38  
Occupancy Rate ..... 44.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 56.3 %  
Case Mix Index (CMI) ..... 1.0759

### STAFFING:

Total Number of Physicians..... 20  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 37  
Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# FLOYD VALLEY HOSPITAL

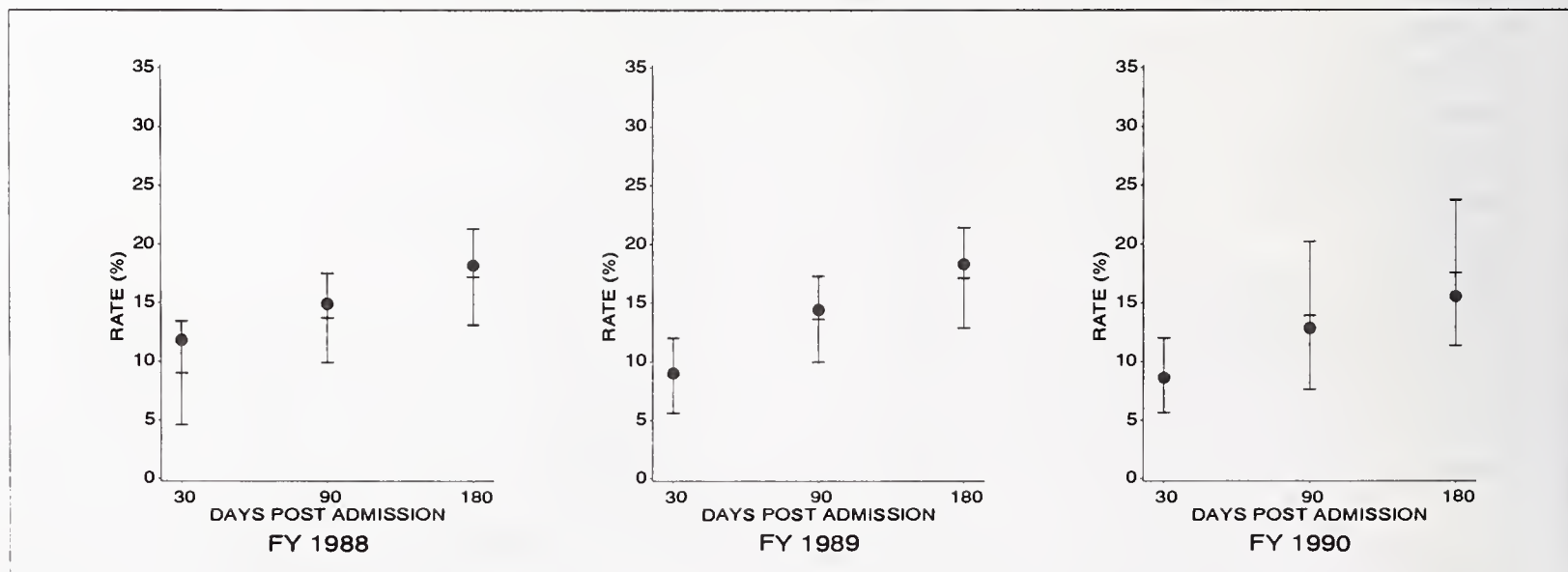
714 LINCOLN ST  
LE MARS, IA 51031  
Medicare Provider Number: 160140

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 407             | 8.6                 | 8.8  | 1.6   | 12.8    | 13.9 | 3.2   | 15.5     | 17.5 | 3.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6               | 33.3                | 30.1 | ----- | 33.3    | 34.5 | ----- | 33.3     | 38.5 | ----- |
| Congestive Heart Failure.....              | 33              | 18.2                | 15.0 | ----- | 21.2    | 24.3 | ----- | 24.2     | 30.6 | ----- |
| Pneumonia/Influenza.....                   | 42              | 9.5                 | 12.6 | ----- | 19.0    | 17.9 | ----- | 26.2     | 21.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 7.2  | ----- | 0.0     | 14.0 | ----- | 0.0      | 19.3 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 1.0  | ----- | 0.0     | 2.4  | ----- | 0.0      | 4.3  | ----- |
| Stroke.....                                | 20              | 5.0                 | 17.8 | ----- | 5.0     | 24.1 | ----- | 15.0     | 28.3 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 5               | 20.0                | 25.0 | ----- | 40.0    | 31.9 | ----- | 60.0     | 36.1 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 10              | 0.0                 | 0.7  | ----- | 0.0     | 1.7  | ----- | 0.0      | 3.0  | ----- |
| Cholecystectomy.....                       | 16              | 0.0                 | 1.4  | ----- | 0.0     | 2.4  | ----- | 0.0      | 3.1  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FLOYD VALLEY HOSPITAL

Medicare Provider Number: 160140

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.2 years  
Proportion female..... 57.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.2 %

### COMORBIDITIES:

Cancer..... 6.1 %  
Chronic cardiovascular disease..... 34.6 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 2.7 %  
Chronic pulmonary disease..... 21.6 %  
Cerebrovascular degeneration..... 1.5 %  
Diabetes mellitus..... 7.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 85.4%  
State ..... 13.8%  
Outside State ..... 0.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 44  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 40.3 %  
Case Mix Index (CMI) ..... 1.0478

### STAFFING:

Total Number of Physicians..... 19  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 23  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# FOREST CITY COMMUNITY HOSPITAL

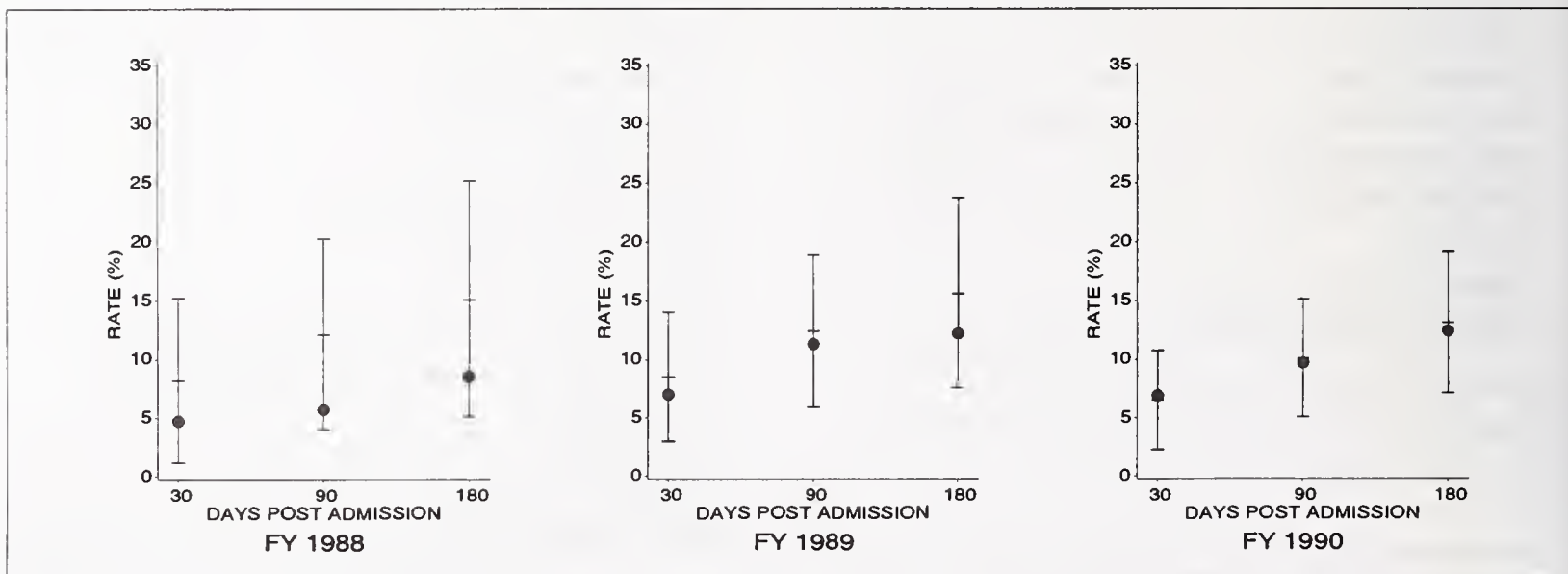
HIGHWAY 9 EAST  
FOREST CITY, IA 50436  
Medicare Provider Number: 160141

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 145             | 6.9                 | 6.5  | 2.1  | 9.7     | 10.1 | 2.5  | 12.4     | 13.1 | 3.0  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 7               | 0.0                 | 17.1 | ---- | 0.0     | 21.3 | ---- | 0.0      | 24.4 | ---- |
| Congestive Heart Failure.....              | 7               | 28.6                | 12.2 | ---- | 42.9    | 18.9 | ---- | 42.9     | 25.6 | ---- |
| Pneumonia/Influenza.....                   | 8               | 25.0                | 11.8 | ---- | 25.0    | 15.8 | ---- | 25.0     | 18.7 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 5               | 0.0                 | 6.8  | ---- | 0.0     | 13.4 | ---- | 20.0     | 19.7 | ---- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 2.8  | ---- | 0.0     | 6.2  | ---- | 0.0      | 10.0 | ---- |
| Stroke.....                                | 6               | 0.0                 | 18.7 | ---- | 0.0     | 22.6 | ---- | 0.0      | 25.9 | ---- |
| Hip Fracture.....                          | 0               |                     |      |      |         |      |      |          |      |      |
| Sepsis.....                                | 2               | 50.0                | 25.7 | ---- | 50.0    | 36.5 | ---- | 50.0     | 41.8 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 0               |                     |      |      |         |      |      |          |      |      |
| Cholecystectomy.....                       | 2               | 0.0                 | 0.9  | ---- | 0.0     | 1.6  | ---- | 0.0      | 2.4  | ---- |
| Hysterectomy.....                          | 0               |                     |      |      |         |      |      |          |      |      |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# FOREST CITY COMMUNITY HOSPITAL

Medicare Provider Number: 160141

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.3 years  
Proportion female..... 57.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 46.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 11.0 %  
Admitted for emergency..... 18.6 %

### COMORBIDITIES:

Cancer..... 1.4 %  
Chronic cardiovascular disease..... 33.1 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.1 %  
Chronic pulmonary disease..... 7.6 %  
Cerebrovascular degeneration..... 1.4 %  
Diabetes mellitus..... 7.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 70.2%  
State ..... 25.4%  
Outside State ..... 4.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 49  
Occupancy Rate ..... 46.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 41.5 %  
Case Mix Index (CMI) ..... 0.9133

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 19  
Licensed Practical Nurses ..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# FRANKLIN GENERAL HOSPITAL

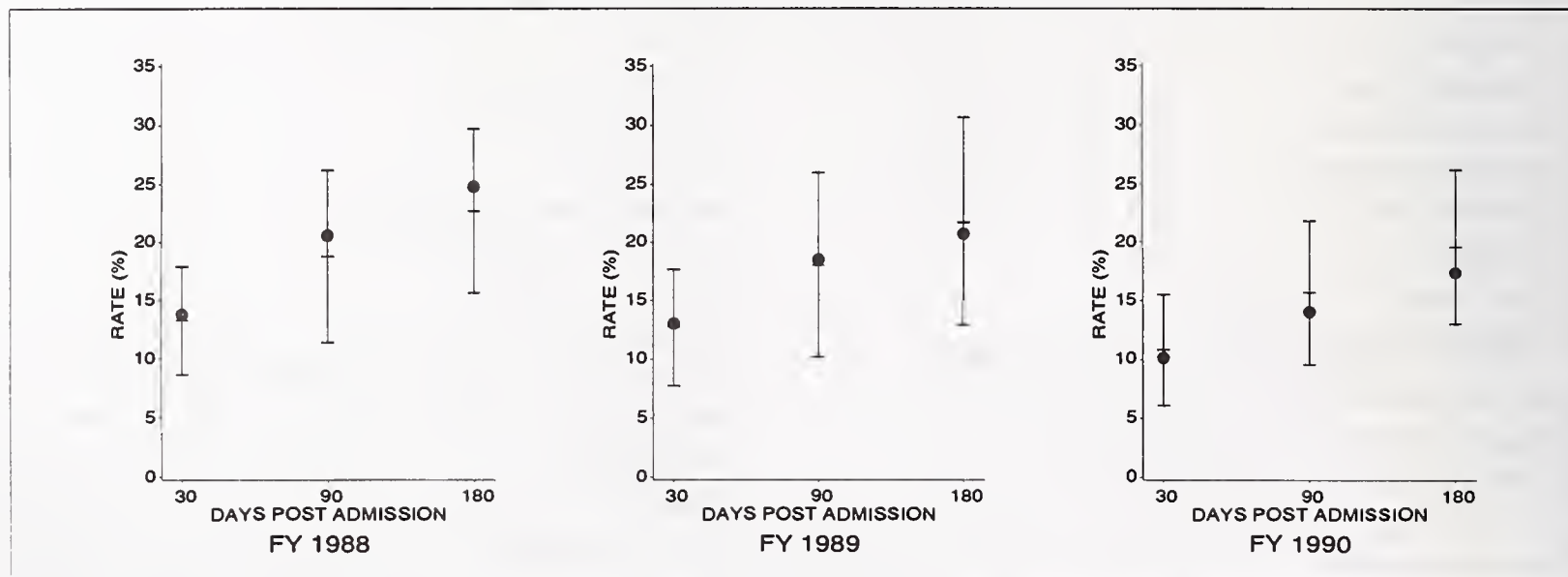
1720 CENTRAL AVE EAST  
HAMPTON, IA 50441  
Medicare Provider Number: 160036

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 258                | 10.1                | 10.8 | 2.4   | 14.0    | 15.7 | 3.1   | 17.4     | 19.6 | 3.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13                 | 23.1                | 35.5 | ----- | 30.8    | 39.0 | ----- | 30.8     | 42.5 | ----- |
| Congestive Heart Failure.....              | 23                 | 13.0                | 15.1 | ----- | 17.4    | 23.8 | ----- | 26.1     | 30.7 | ----- |
| Pneumonia/Influenza.....                   | 19                 | 26.3                | 13.9 | ----- | 26.3    | 18.5 | ----- | 26.3     | 21.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6                  | 0.0                 | 7.5  | ----- | 16.7    | 14.1 | ----- | 16.7     | 19.2 | ----- |
| Transient Cerebral Ischemia.....           | 1                  | 0.0                 | 9.4  | ----- | 0.0     | 18.7 | ----- | 0.0      | 26.9 | ----- |
| Stroke.....                                | 9                  | 22.2                | 24.0 | ----- | 44.4    | 30.0 | ----- | 44.4     | 34.2 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3                  | 0.0                 | 20.5 | ----- | 33.3    | 28.8 | ----- | 33.3     | 34.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 2                  | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.2  | ----- |
| Cholecystectomy.....                       | 5                  | 0.0                 | 1.5  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.3  | ----- |
| Hysterectomy.....                          | 5                  | 0.0                 | 1.5  | ----- | 0.0     | 3.3  | ----- | 0.0      | 4.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FRANKLIN GENERAL HOSPITAL

Medicare Provider Number: 160036

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.6 years  
Proportion female..... 54.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 50.0 %

### COMORBIDITIES:

Cancer..... 5.0 %  
Chronic cardiovascular disease..... 47.3 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.9 %  
Chronic pulmonary disease..... 15.1 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 6.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 66.0%  
State ..... 31.6%  
Outside State ..... 2.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 92  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 6.0 %  
Case Mix Index (CMI) ..... 1.0954

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists..... 28.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 16  
Licensed Practical Nurses ..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# FT MADISON COMMUNITY HOSPITAL

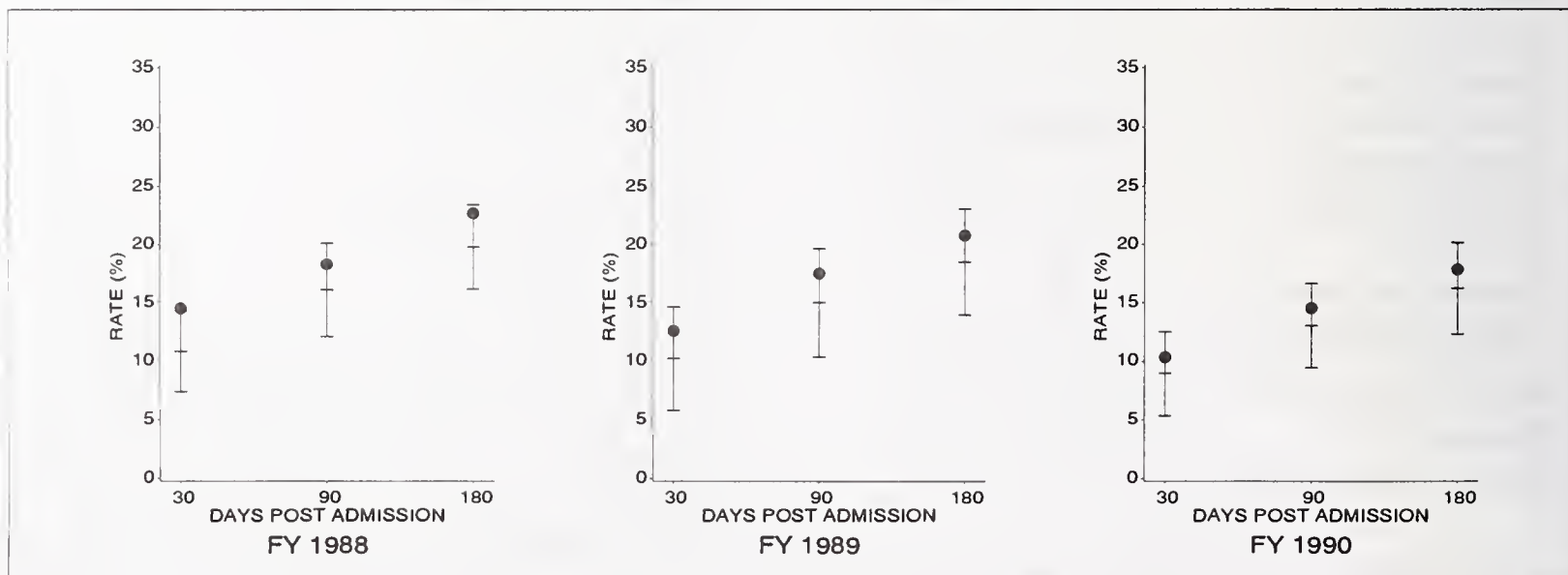
5445 AVENUE O, BOX 174  
FORT MADISON, IA 52627  
Medicare Provider Number: 160122

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 505                | 10.3                | 8.9  | 1.8   | 14.5    | 13.0 | 1.8   | 17.8     | 16.2 | 2.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 36                 | 33.3                | 26.2 | ----- | 33.3    | 29.3 | ----- | 36.1     | 32.2 | ----- |
| Congestive Heart Failure.....              | 39                 | 15.4                | 13.3 | ----- | 23.1    | 21.3 | ----- | 30.8     | 27.7 | ----- |
| Pneumonia/Influenza.....                   | 46                 | 17.4                | 14.4 | ----- | 23.9    | 19.6 | ----- | 28.3     | 23.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 5                  | 0.0                 | 3.0  | ----- | 0.0     | 5.8  | ----- | 20.0     | 8.7  | ----- |
| Transient Cerebral Ischemia.....           | 5                  | 0.0                 | 1.7  | ----- | 0.0     | 4.1  | ----- | 0.0      | 7.1  | ----- |
| Stroke.....                                | 16                 | 18.8                | 16.9 | ----- | 18.8    | 23.1 | ----- | 18.8     | 26.9 | ----- |
| Hip Fracture.....                          | 12                 | 0.0                 | 7.0  | ----- | 8.3     | 12.1 | ----- | 16.7     | 15.6 | ----- |
| Sepsis.....                                | 7                  | 42.9                | 34.6 | ----- | 42.9    | 42.1 | ----- | 42.9     | 47.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3                  | 0.0                 | 3.9  | ----- | 33.3    | 7.4  | ----- | 33.3     | 9.5  | ----- |
| Open Reduction of Hip Fracture.....        | 5                  | 0.0                 | 6.2  | ----- | 0.0     | 10.9 | ----- | 20.0     | 14.3 | ----- |
| Prostatectomy.....                         | 35                 | 0.0                 | 0.8  | ----- | 0.0     | 1.8  | ----- | 0.0      | 3.1  | ----- |
| Cholecystectomy.....                       | 13                 | 0.0                 | 0.8  | ----- | 0.0     | 1.4  | ----- | 0.0      | 1.8  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.1  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# FT MADISON COMMUNITY HOSPITAL

Medicare Provider Number: 160122

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.6 years  
Proportion female..... 61.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 86.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 20.0 %  
Admitted for emergency..... 56.8 %

### COMORBIDITIES:

Cancer..... 3.8 %  
Chronic cardiovascular disease..... 38.8 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 1.2 %  
Chronic pulmonary disease..... 13.3 %  
Cerebrovascular degeneration..... 1.6 %  
Diabetes mellitus..... 6.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 84.7%  
State ..... 5.2%  
Outside State ..... 10.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 50  
Occupancy Rate ..... 52.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 45.4 %  
Case Mix Index (CMI) ..... 1.1227

### STAFFING:

Total Number of Physicians..... 23  
Percent of Physicians Board  
Certified Specialists..... 47.8 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 48  
Licensed Practical Nurses..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# GRAPE COMMUNITY HOSPITAL

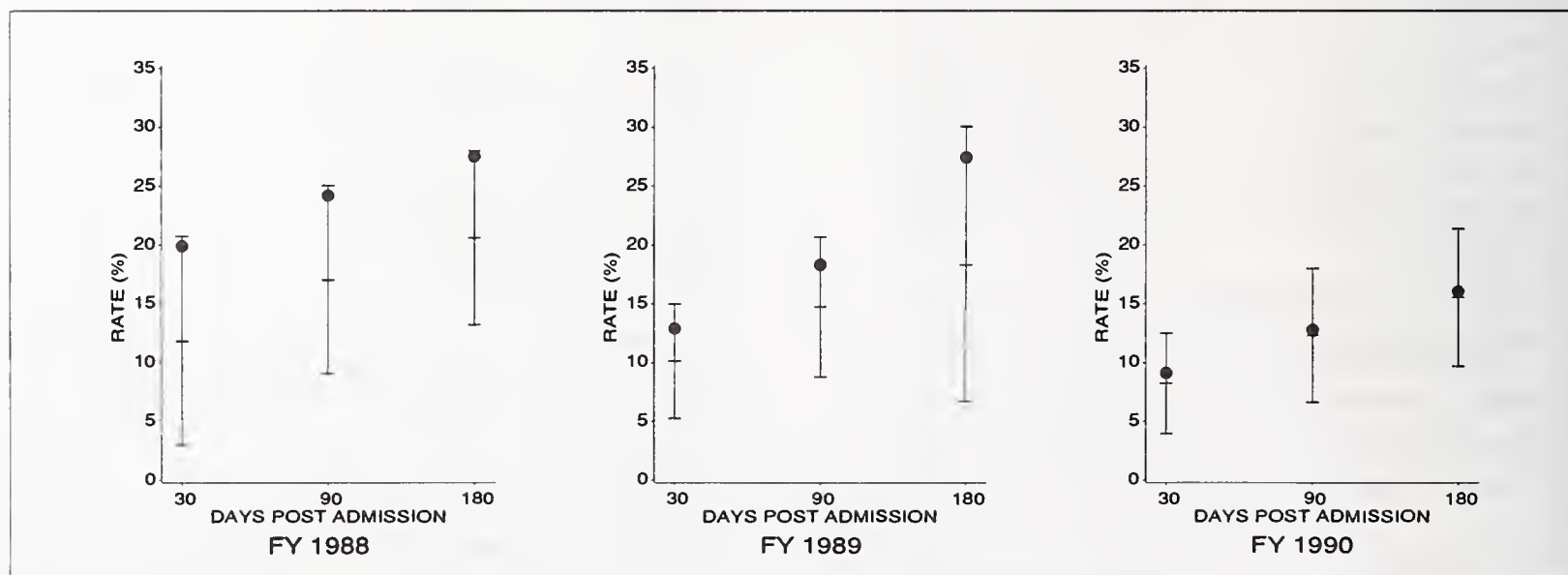
HIGHWAY 275 NORTH BOX 246  
HAMBURG, IA 51640  
Medicare Provider Number: 160099

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 187             | 9.1                 | 8.2  | 2.1   | 12.8    | 12.3 | 2.8   | 16.0     | 15.5 | 2.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 8               | 50.0                | 22.9 | ----- | 50.0    | 26.7 | ----- | 50.0     | 30.1 | ----- |
| Congestive Heart Failure.....              | 10              | 20.0                | 15.3 | ----- | 30.0    | 24.7 | ----- | 50.0     | 31.0 | ----- |
| Pneumonia/Influenza.....                   | 20              | 15.0                | 10.4 | ----- | 20.0    | 14.2 | ----- | 20.0     | 17.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 12.0 | ----- | 0.0     | 20.7 | ----- | 0.0      | 27.9 | ----- |
| Transient Cerebral Ischemia.....           | 1               | 0.0                 | 3.6  | ----- | 0.0     | 7.6  | ----- | 0.0      | 12.0 | ----- |
| Stroke.....                                | 6               | 16.7                | 25.2 | ----- | 16.7    | 30.2 | ----- | 16.7     | 33.7 | ----- |
| Hip Fracture.....                          | 6               | 0.0                 | 6.1  | ----- | 0.0     | 10.6 | ----- | 0.0      | 14.1 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 3.2  | ----- | 0.0     | 6.3  | ----- | 0.0      | 8.8  | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 7.1  | ----- | 0.0     | 12.1 | ----- | 0.0      | 15.8 | ----- |
| Prostatectomy.....                         | 9               | 0.0                 | 1.1  | ----- | 0.0     | 2.7  | ----- | 11.1     | 5.0  | ----- |
| Cholecystectomy.....                       | 3               | 0.0                 | 1.1  | ----- | 0.0     | 2.0  | ----- | 0.0      | 2.7  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# GRAPE COMMUNITY HOSPITAL

Medicare Provider Number: 160099

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.3 years  
Proportion female..... 55.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 70.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 10.2 %  
Admitted for emergency..... 3.2 %

### COMORBIDITIES:

Cancer..... 3.2 %  
Chronic cardiovascular disease..... 35.3 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.5 %  
Chronic pulmonary disease..... 13.4 %  
Cerebrovascular degeneration..... 3.7 %  
Diabetes mellitus..... 13.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 72.5%  
State ..... 16.2%  
Outside State ..... 11.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 34  
Occupancy Rate ..... 37.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 46.8 %  
Case Mix Index (CMI) ..... 1.0731

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 18  
Licensed Practical Nurses ..... 8

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# GREATER COMMUNITY HOSPITAL

COTTONWOOD AND TOWNLINE RD

CRESTON, IA 50801

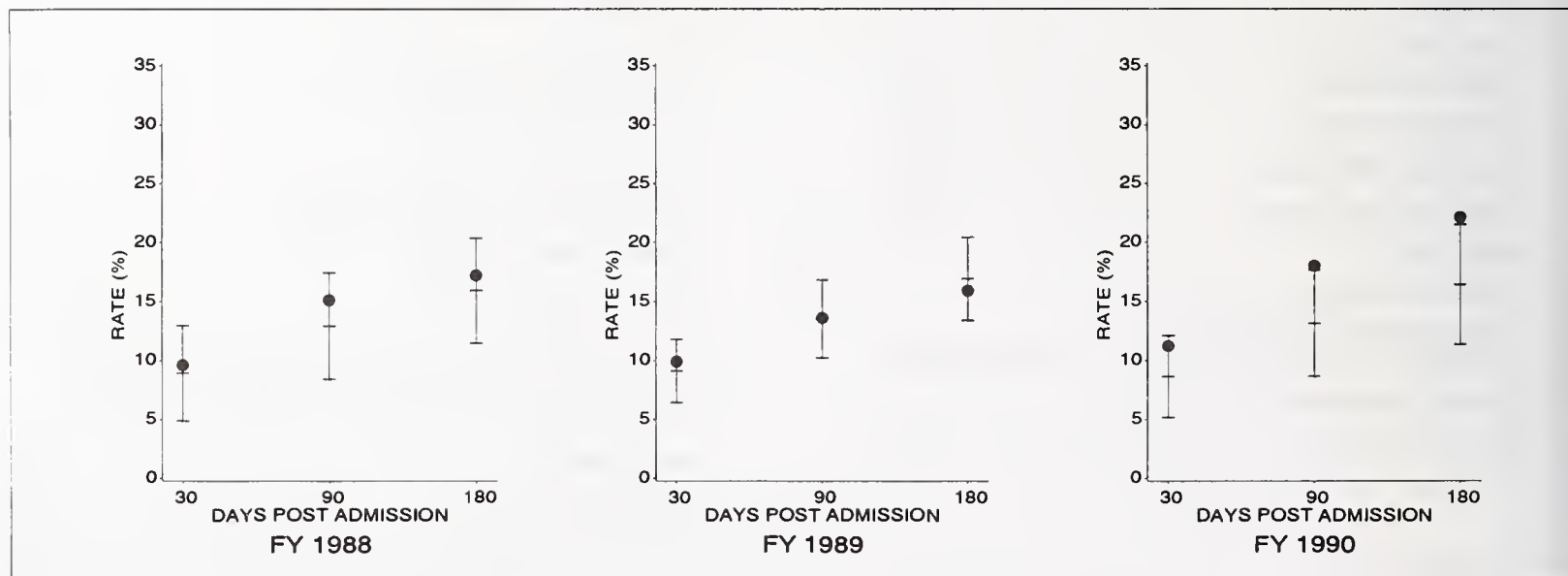
Medicare Provider Number: 160116

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 489             | 11.2                | 8.6  | 1.7  | 18.0    | 13.1 | 2.2  | 22.1     | 16.4 | 2.5  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 17              | 47.1                | 29.5 | ---- | 52.9    | 33.2 | ---- | 52.9     | 36.3 | ---- |
| Congestive Heart Failure.....              | 29              | 31.0                | 16.4 | ---- | 48.3    | 25.9 | ---- | 65.5     | 32.5 | ---- |
| Pneumonia/Influenza.....                   | 19              | 21.1                | 13.6 | ---- | 26.3    | 18.5 | ---- | 31.6     | 22.1 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 9.6  | ---- | 0.0     | 15.9 | ---- | 0.0      | 20.7 | ---- |
| Transient Cerebral Ischemia.....           | 11              | 0.0                 | 1.6  | ---- | 0.0     | 3.9  | ---- | 9.1      | 6.7  | ---- |
| Stroke.....                                | 23              | 21.7                | 17.9 | ---- | 30.4    | 23.7 | ---- | 30.4     | 27.1 | ---- |
| Hip Fracture.....                          | 24              | 20.8                | 8.8  | ---- | 33.3    | 15.8 | ---- | 37.5     | 20.2 | ---- |
| Sepsis.....                                | 6               | 16.7                | 32.2 | ---- | 16.7    | 41.8 | ---- | 33.3     | 46.8 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 0.7  | ---- | 0.0     | 1.5  | ---- | 0.0      | 2.6  | ---- |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 11              | 18.2                | 8.0  | ---- | 27.3    | 15.1 | ---- | 27.3     | 20.0 | ---- |
| Open Reduction of Hip Fracture.....        | 11              | 27.3                | 7.8  | ---- | 36.4    | 14.5 | ---- | 36.4     | 18.7 | ---- |
| Prostatectomy.....                         | 7               | 0.0                 | 0.8  | ---- | 0.0     | 2.0  | ---- | 28.6     | 3.6  | ---- |
| Cholecystectomy.....                       | 24              | 0.0                 | 1.7  | ---- | 0.0     | 3.1  | ---- | 0.0      | 4.1  | ---- |
| Hysterectomy.....                          | 6               | 0.0                 | 1.9  | ---- | 0.0     | 3.1  | ---- | 0.0      | 4.0  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GREATER COMMUNITY HOSPITAL

Medicare Provider Number: 160116

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.5 years  
Proportion female..... 58.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 50.5 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 49.5 %  
Admitted for emergency..... 38.0 %

### COMORBIDITIES:

Cancer..... 5.1 %  
Chronic cardiovascular disease..... 32.3 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 4.7 %  
Chronic pulmonary disease..... 12.7 %  
Cerebrovascular degeneration..... 7.4 %  
Diabetes mellitus..... 5.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 74.2%  
State ..... 24.7%  
Outside State ..... 1.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 53  
Occupancy Rate ..... 45.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 44.2 %  
Case Mix Index (CMI) ..... 1.1191

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists ..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 38  
Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# GREENE COUNTY MEDICAL CENTER

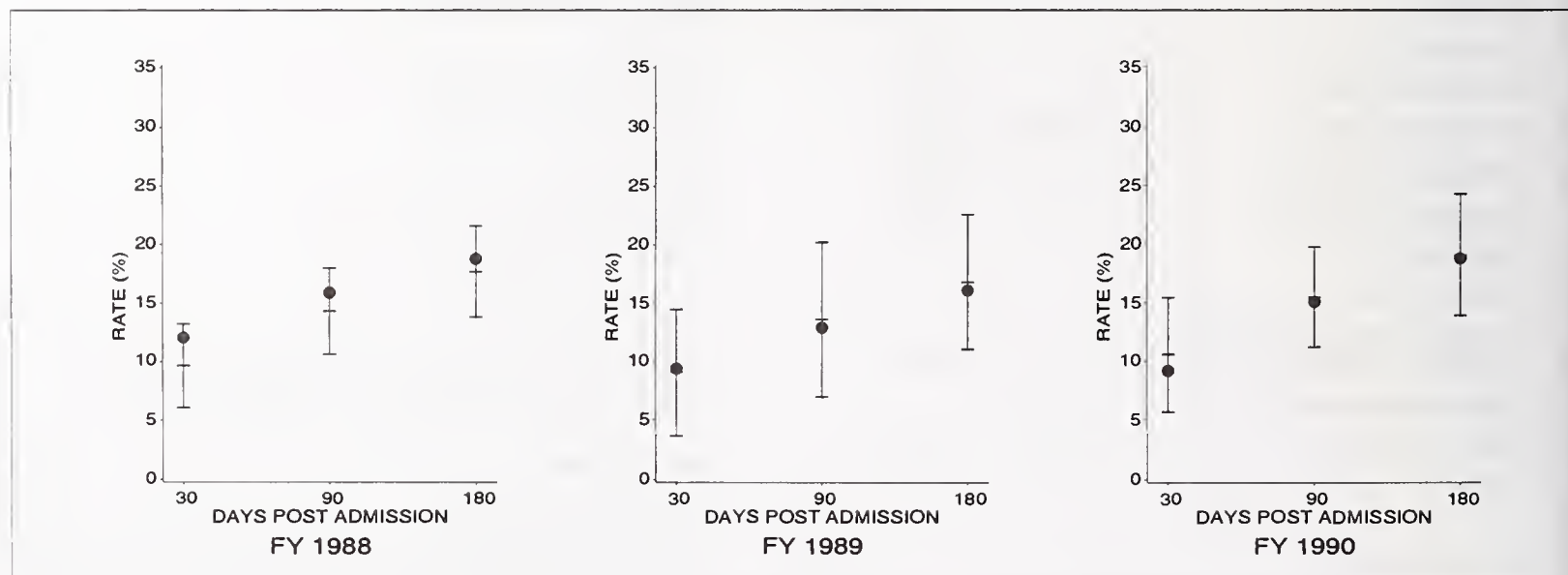
1000 W LINCOLNWAY  
JEFFERSON, IA 50129  
Medicare Provider Number: 160021

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 292                | 9.2                 | 10.6 | 2.4   | 15.1    | 15.5 | 2.2   | 18.8     | 19.1 | 2.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 21                 | 33.3                | 26.3 | ----- | 33.3    | 29.5 | ----- | 33.3     | 32.8 | ----- |
| Congestive Heart Failure.....              | 14                 | 7.1                 | 14.5 | ----- | 7.1     | 22.6 | ----- | 21.4     | 29.5 | ----- |
| Pneumonia/Influenza.....                   | 17                 | 29.4                | 17.9 | ----- | 35.3    | 24.3 | ----- | 35.3     | 28.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1                  | 0.0                 | 15.6 | ----- | 0.0     | 30.8 | ----- | 100.0    | 41.5 | ----- |
| Transient Cerebral Ischemia.....           | 8                  | 12.5                | 1.7  | ----- | 12.5    | 3.9  | ----- | 12.5     | 6.4  | ----- |
| Stroke.....                                | 14                 | 7.1                 | 19.5 | ----- | 21.4    | 25.0 | ----- | 21.4     | 28.7 | ----- |
| Hip Fracture.....                          | 17                 | 5.9                 | 5.5  | ----- | 5.9     | 10.0 | ----- | 5.9      | 13.5 | ----- |
| Sepsis.....                                | 3                  | 66.7                | 44.7 | ----- | 66.7    | 54.2 | ----- | 100.0    | 58.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6                  | 16.7                | 4.3  | ----- | 16.7    | 8.3  | ----- | 16.7     | 11.5 | ----- |
| Open Reduction of Hip Fracture.....        | 7                  | 0.0                 | 3.9  | ----- | 0.0     | 7.8  | ----- | 0.0      | 10.8 | ----- |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 11                 | 0.0                 | 6.7  | ----- | 0.0     | 13.9 | ----- | 9.1      | 19.1 | ----- |
| Hysterectomy.....                          | 8                  | 0.0                 | 0.8  | ----- | 0.0     | 1.8  | ----- | 0.0      | 3.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm$ 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GREENE COUNTY MEDICAL CENTER

Medicare Provider Number: 160021

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.6 years  
Proportion female..... 59.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 86.0 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 5.5 %  
Admitted for emergency..... 59.2 %

### COMORBIDITIES:

Cancer..... 8.9 %  
Chronic cardiovascular disease..... 36.6 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 5.1 %  
Chronic pulmonary disease..... 13.0 %  
Cerebrovascular degeneration..... 2.7 %  
Diabetes mellitus..... 3.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 70.2%  
State ..... 28.8%  
Outside State ..... 1.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 127  
Occupancy Rate ..... 77.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 43.6 %  
Case Mix Index (CMI) ..... 1.1197

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists..... 71.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 32  
Licensed Practical Nurses..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# GRINNELL GENERAL HOSPITAL

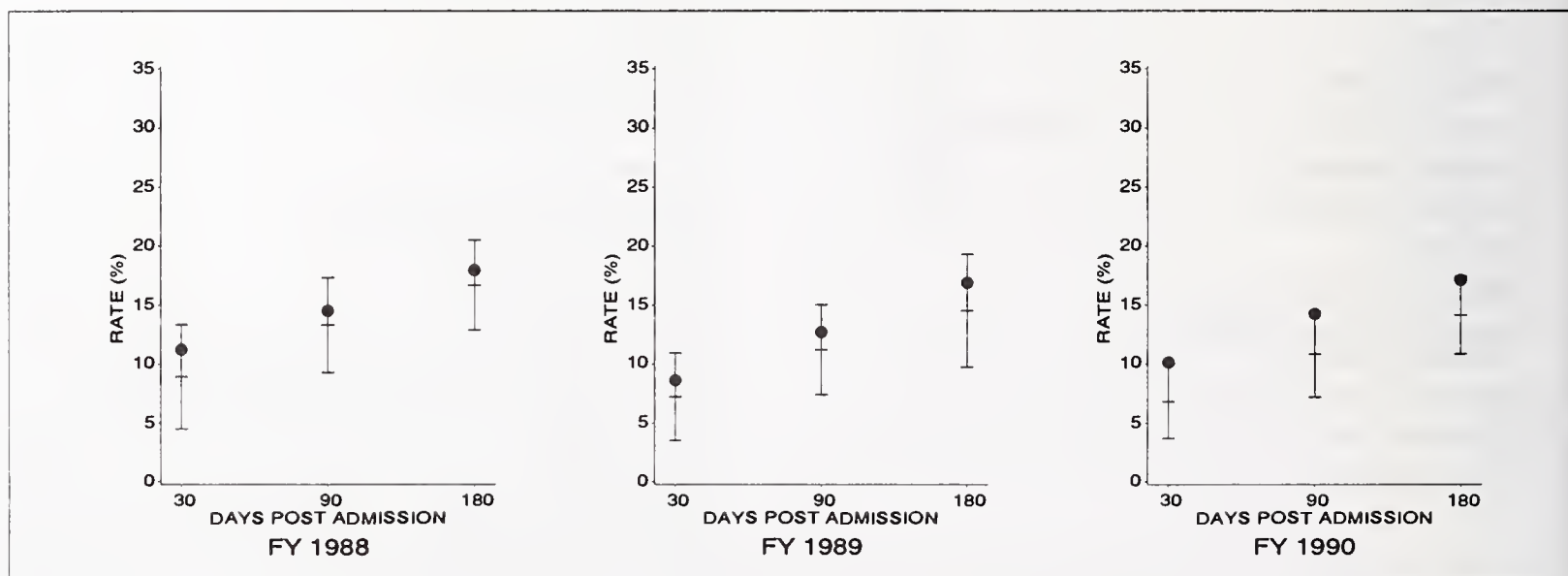
4TH & REED ST  
GRINNELL, IA 50112  
Medicare Provider Number: 160147

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 633             | 10.1                | 6.8  | 1.6   | 14.2    | 10.8 | 1.8   | 17.1     | 14.1 | 1.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 10              | 10.0                | 24.9 | ----- | 10.0    | 27.7 | ----- | 30.0     | 30.0 | ----- |
| Congestive Heart Failure.....              | 29              | 17.2                | 14.5 | ----- | 31.0    | 22.7 | ----- | 34.5     | 28.7 | ----- |
| Pneumonia/Influenza.....                   | 66              | 10.6                | 9.2  | 3.8   | 12.1    | 13.3 | 4.3   | 16.7     | 16.7 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 8               | 0.0                 | 4.9  | ----- | 0.0     | 9.8  | ----- | 12.5     | 13.9 | ----- |
| Transient Cerebral Ischemia.....           | 8               | 25.0                | 1.3  | ----- | 25.0    | 3.1  | ----- | 37.5     | 5.4  | ----- |
| Stroke.....                                | 31              | 12.9                | 13.4 | ----- | 19.4    | 19.0 | ----- | 22.6     | 23.3 | ----- |
| Hip Fracture.....                          | 28              | 3.6                 | 4.7  | ----- | 3.6     | 8.6  | ----- | 3.6      | 11.3 | ----- |
| Sepsis.....                                | 11              | 45.5                | 22.8 | ----- | 45.5    | 30.5 | ----- | 45.5     | 35.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 2.1  | ----- | 0.0     | 3.8  | ----- | 0.0      | 5.5  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 27              | 3.7                 | 3.9  | ----- | 3.7     | 7.2  | ----- | 3.7      | 9.6  | ----- |
| Open Reduction of Hip Fracture.....        | 6               | 0.0                 | 4.2  | ----- | 0.0     | 7.4  | ----- | 0.0      | 9.8  | ----- |
| Prostatectomy.....                         | 22              | 0.0                 | 0.9  | ----- | 4.5     | 2.0  | ----- | 4.5      | 3.5  | ----- |
| Cholecystectomy.....                       | 29              | 3.4                 | 3.5  | ----- | 10.3    | 7.2  | ----- | 10.3     | 9.9  | ----- |
| Hysterectomy.....                          | 12              | 0.0                 | 0.9  | ----- | 0.0     | 2.1  | ----- | 0.0      | 3.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# GRINNELL GENERAL HOSPITAL

Medicare Provider Number: 160147

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.0 years  
Proportion female..... 61.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 84.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 84.5 %  
Admitted for emergency..... 14.7 %

### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 36.3 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 1.1 %  
Chronic pulmonary disease..... 23.2 %  
Cerebrovascular degeneration..... 7.0 %  
Diabetes mellitus..... 6.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 60.9%  
State ..... 37.7%  
Outside State ..... 1.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 53  
Occupancy Rate ..... 52.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 42.7 %  
Case Mix Index (CMI) ..... 1.2403

### STAFFING:

Total Number of Physicians..... 17  
Percent of Physicians Board  
Certified Specialists ..... 88.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 51  
Licensed Practical Nurses ..... 14

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# GRUNDY COUNTY MEMORIAL HOSPITAL

PO BOX 97  
GRUNDY CENTER, IA 50638  
Medicare Provider Number: 160035

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 12                 | 8.3                 | 8.7  | ---- | 8.3     | 12.4 | ---- | 16.7     | 15.5 | ---- |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 1                  | 100.0               | 35.0 | ---- | 100.0   | 37.2 | ---- | 100.0    | 40.1 | ---- |
| Congestive Heart Failure.....              | 0                  |                     |      |      |         |      |      |          |      |      |
| Pneumonia/Influenza.....                   | 0                  |                     |      |      |         |      |      |          |      |      |
| Chronic Obstructive Pulmonary Disease..... | 1                  | 0.0                 | 3.9  | ---- | 0.0     | 7.8  | ---- | 0.0      | 11.2 | ---- |
| Transient Cerebral Ischemia.....           | 1                  | 0.0                 | 0.6  | ---- | 0.0     | 1.6  | ---- | 0.0      | 3.0  | ---- |
| Stroke.....                                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Fracture.....                          | 0                  |                     |      |      |         |      |      |          |      |      |
| Sepsis.....                                | 1                  | 0.0                 | 11.8 | ---- | 0.0     | 17.1 | ---- | 100.0    | 22.5 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 1                  | 0.0                 | 0.5  | ---- | 0.0     | 1.1  | ---- | 0.0      | 2.0  | ---- |
| Cholecystectomy.....                       | 0                  |                     |      |      |         |      |      |          |      |      |
| Hysterectomy.....                          | 0                  |                     |      |      |         |      |      |          |      |      |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

# GRUNDY COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160035

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 82.3 years  
Proportion female..... 41.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 66.7 %  
Transferred from skilled nursing facility..... 8.3 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 16.7 %

### COMORBIDITIES:

Cancer..... 0.0 %  
Chronic cardiovascular disease..... 33.3 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.0 %  
Chronic pulmonary disease..... 8.3 %  
Cerebrovascular degeneration..... 0.0 %  
Diabetes mellitus..... 8.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 92.3%  
State ..... 7.7%  
Outside State ..... 0.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 88  
Occupancy Rate ..... 76.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 69.7 %  
Case Mix Index (CMI) ..... 1.0279

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 18  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# GUTHRIE COUNTY HOSPITAL

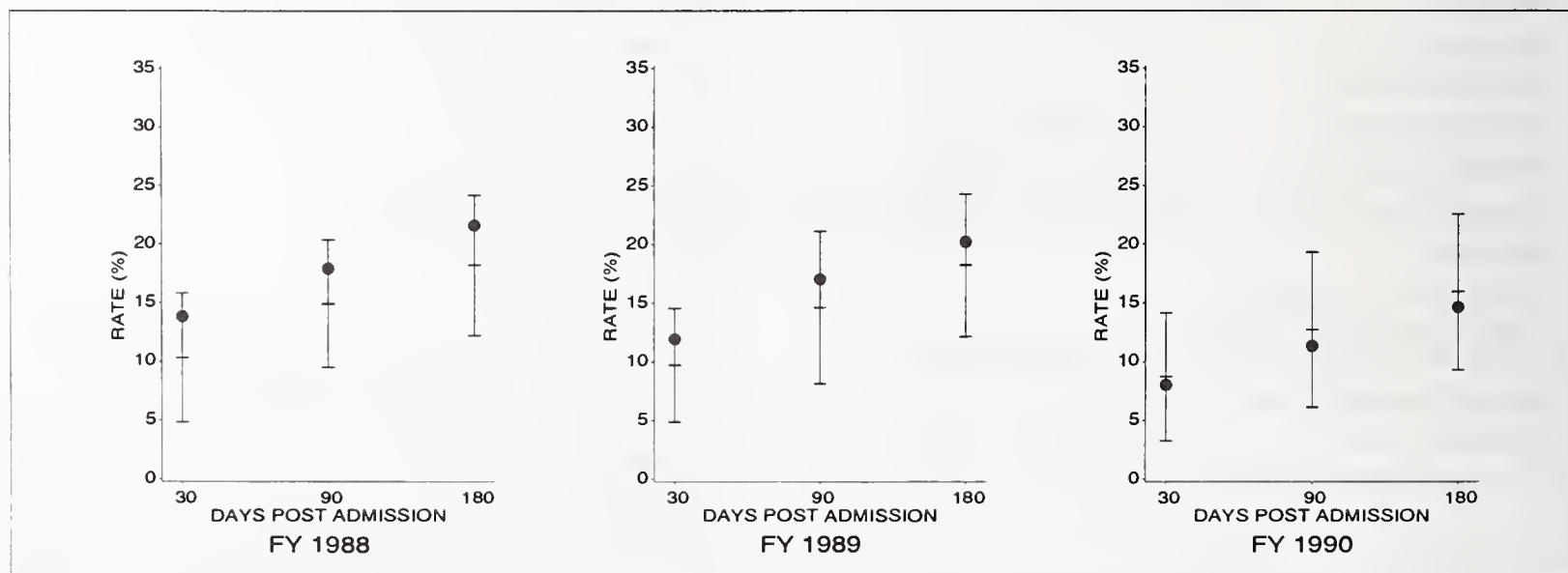
710 N 12TH ST  
GUTHRIE CENTER, IA 50115  
Medicare Provider Number: 160018

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 212                | 8.0                 | 8.7  | 2.7   | 11.3    | 12.7 | 3.3   | 14.6     | 15.9 | 3.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 16                 | 25.0                | 32.9 | ----- | 25.0    | 37.7 | ----- | 25.0     | 41.6 | ----- |
| Congestive Heart Failure.....              | 3                  | 33.3                | 11.5 | ----- | 33.3    | 18.2 | ----- | 66.7     | 24.2 | ----- |
| Pneumonia/Influenza.....                   | 20                 | 10.0                | 16.3 | ----- | 15.0    | 22.1 | ----- | 20.0     | 25.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6                  | 0.0                 | 5.1  | ----- | 0.0     | 10.2 | ----- | 0.0      | 14.5 | ----- |
| Transient Cerebral Ischemia.....           | 5                  | 0.0                 | 3.0  | ----- | 20.0    | 6.6  | ----- | 20.0     | 10.7 | ----- |
| Stroke.....                                | 8                  | 25.0                | 22.5 | ----- | 37.5    | 32.7 | ----- | 50.0     | 38.1 | ----- |
| Hip Fracture.....                          | 10                 | 10.0                | 5.2  | ----- | 10.0    | 9.4  | ----- | 10.0     | 11.9 | ----- |
| Sepsis.....                                | 3                  | 0.0                 | 21.0 | ----- | 33.3    | 37.7 | ----- | 33.3     | 46.9 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 4                  | 25.0                | 4.7  | ----- | 25.0    | 8.9  | ----- | 25.0     | 12.1 | ----- |
| Open Reduction of Hip Fracture.....        | 7                  | 14.3                | 5.0  | ----- | 14.3    | 8.9  | ----- | 14.3     | 11.3 | ----- |
| Prostatectomy.....                         | 1                  | 0.0                 | 0.7  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.9  | ----- |
| Cholecystectomy.....                       | 3                  | 0.0                 | 0.6  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.3  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# GUTHRIE COUNTY HOSPITAL

Medicare Provider Number: 160018

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.9 years  
Proportion female..... 62.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 28.8 %  
Admitted for emergency..... 68.4 %

### COMORBIDITIES:

Cancer..... 3.8 %  
Chronic cardiovascular disease..... 40.6 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.9 %  
Chronic pulmonary disease..... 17.9 %  
Cerebrovascular degeneration..... 2.8 %  
Diabetes mellitus..... 3.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 84.5%  
State ..... 13.4%  
Outside State ..... 2.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 25  
Occupancy Rate ..... 36.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 69.5 %  
Case Mix Index (CMI) ..... 0.9619

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 10  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# GUTTENBERG MUNICIPAL HOSPITAL

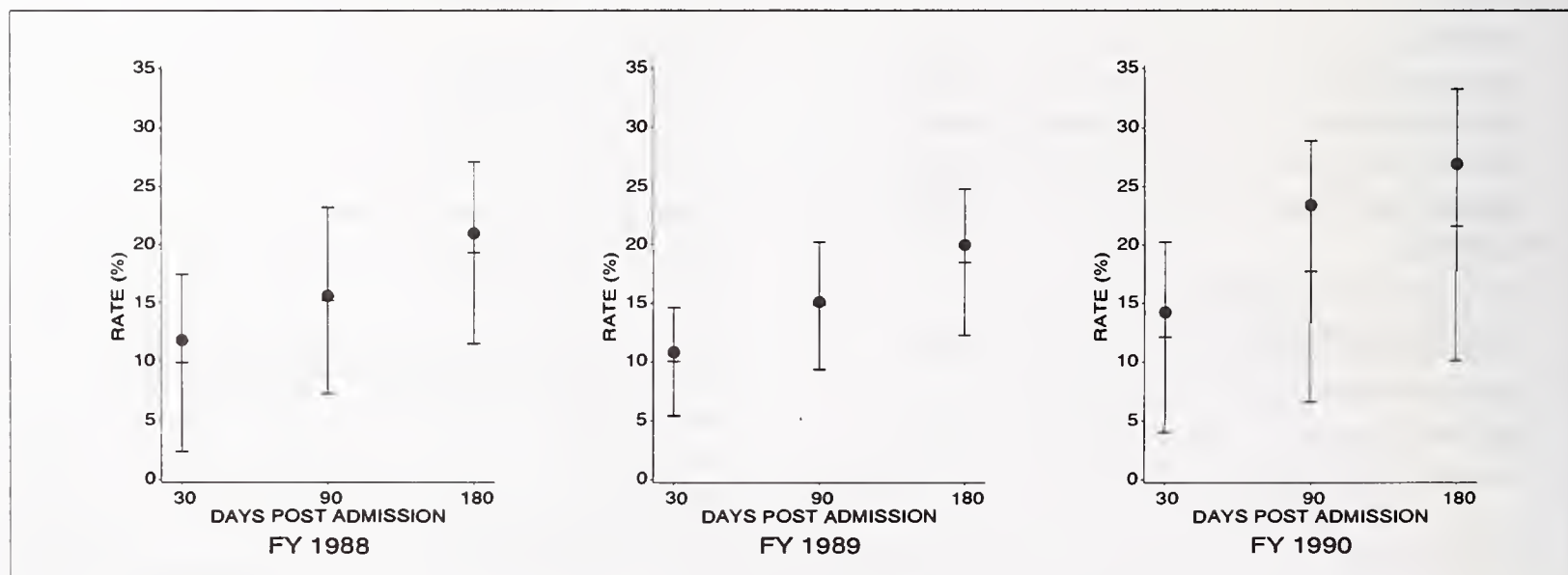
SECOND & MAIN STS  
GUTTENBERG, IA 52052  
Medicare Provider Number: 160097

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 197             | 14.2                | 12.1 | 4.1  | 23.4    | 17.7 | 5.6  | 26.9     | 21.6 | 5.8  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 7               | 57.1                | 38.3 | ---- | 57.1    | 44.5 | ---- | 57.1     | 47.9 | ---- |
| Congestive Heart Failure.....              | 9               | 22.2                | 9.6  | ---- | 44.4    | 15.4 | ---- | 55.6     | 20.6 | ---- |
| Pneumonia/Influenza.....                   | 14              | 21.4                | 16.3 | ---- | 42.9    | 22.8 | ---- | 42.9     | 27.0 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 6               | 0.0                 | 5.0  | ---- | 0.0     | 9.6  | ---- | 0.0      | 13.3 | ---- |
| Transient Cerebral Ischemia.....           | 1               | 0.0                 | 1.4  | ---- | 0.0     | 3.6  | ---- | 0.0      | 6.6  | ---- |
| Stroke.....                                | 12              | 0.0                 | 16.7 | ---- | 8.3     | 22.0 | ---- | 25.0     | 26.2 | ---- |
| Hip Fracture.....                          | 9               | 33.3                | 3.9  | ---- | 33.3    | 7.1  | ---- | 33.3     | 9.7  | ---- |
| Sepsis.....                                | 7               | 14.3                | 21.9 | ---- | 42.9    | 30.6 | ---- | 42.9     | 37.0 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 3               | 66.7                | 3.3  | ---- | 66.7    | 6.3  | ---- | 66.7     | 8.8  | ---- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 3.5  | ---- | 0.0     | 6.6  | ---- | 0.0      | 8.8  | ---- |
| Prostatectomy.....                         | 1               | 0.0                 | 0.7  | ---- | 0.0     | 1.8  | ---- | 0.0      | 3.4  | ---- |
| Cholecystectomy.....                       | 4               | 0.0                 | 3.3  | ---- | 0.0     | 7.6  | ---- | 0.0      | 11.2 | ---- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.1  | ---- | 0.0     | 0.2  | ---- | 0.0      | 0.3  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# GUTTENBERG MUNICIPAL HOSPITAL

Medicare Provider Number: 160097

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.1 years  
Proportion female..... 55.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 53.8 %  
Transferred from skilled nursing facility..... 0.5 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 29.4 %

### COMORBIDITIES:

Cancer..... 5.6 %  
Chronic cardiovascular disease..... 33.5 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.5 %  
Chronic pulmonary disease..... 20.8 %  
Cerebrovascular degeneration..... 5.6 %  
Diabetes mellitus..... 11.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 87.0%  
State ..... 10.8%  
Outside State ..... 2.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 29  
Occupancy Rate ..... 34.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 61.3 %  
Case Mix Index (CMI) ..... 1.1767

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 13  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HAMILTON COUNTY PUBLIC HOSPITAL

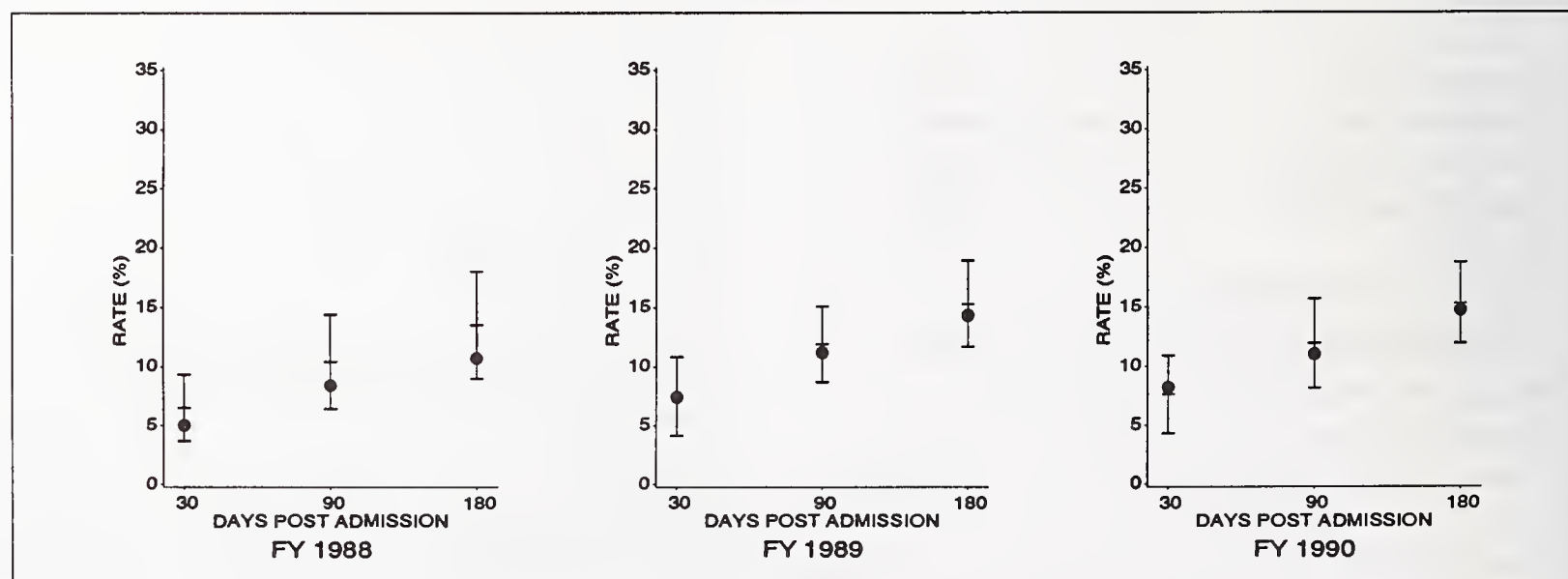
800 OHIO ST  
WEBSTER CITY, IA 50595  
Medicare Provider Number: 160076

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 490             | 8.2                 | 7.6  | 1.7   | 11.0    | 11.9 | 1.9   | 14.7     | 15.3 | 1.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13              | 46.2                | 23.4 | ----- | 46.2    | 26.6 | ----- | 46.2     | 30.4 | ----- |
| Congestive Heart Failure.....              | 36              | 11.1                | 14.6 | ----- | 13.9    | 22.6 | ----- | 16.7     | 28.8 | ----- |
| Pneumonia/Influenza.....                   | 33              | 9.1                 | 12.4 | ----- | 12.1    | 17.5 | ----- | 15.2     | 21.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 11              | 9.1                 | 9.8  | ----- | 18.2    | 17.2 | ----- | 36.4     | 21.7 | ----- |
| Transient Cerebral Ischemia.....           | 14              | 0.0                 | 2.4  | ----- | 0.0     | 5.4  | ----- | 0.0      | 8.6  | ----- |
| Stroke.....                                | 10              | 30.0                | 18.5 | ----- | 30.0    | 25.1 | ----- | 30.0     | 29.1 | ----- |
| Hip Fracture.....                          | 8               | 25.0                | 4.5  | ----- | 25.0    | 8.6  | ----- | 25.0     | 12.0 | ----- |
| Sepsis.....                                | 4               | 0.0                 | 23.5 | ----- | 25.0    | 26.7 | ----- | 25.0     | 29.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 2               | 0.0                 | 5.2  | ----- | 0.0     | 9.4  | ----- | 0.0      | 13.0 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 33.3                | 3.3  | ----- | 33.3    | 6.7  | ----- | 33.3     | 9.1  | ----- |
| Prostatectomy.....                         | 3               | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.9  | ----- |
| Cholecystectomy.....                       | 5               | 0.0                 | 1.4  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.5  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HAMILTON COUNTY PUBLIC HOSPITAL

Medicare Provider Number: 160076

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.8 years  
Proportion female..... 60.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 48.5 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 9.4 %  
Admitted for emergency..... 36.0 %

### COMORBIDITIES:

Cancer..... 6.5 %  
Chronic cardiovascular disease..... 37.1 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.9 %  
Chronic pulmonary disease..... 20.8 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 7.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 71.3%  
State ..... 27.8%  
Outside State ..... 0.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.3 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 49  
Occupancy Rate ..... 55.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 43.1 %  
Case Mix Index (CMI) ..... 0.9613

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists..... 41.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 46  
Licensed Practical Nurses..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# HANCOCK COUNTY MEMORIAL HOSPITAL

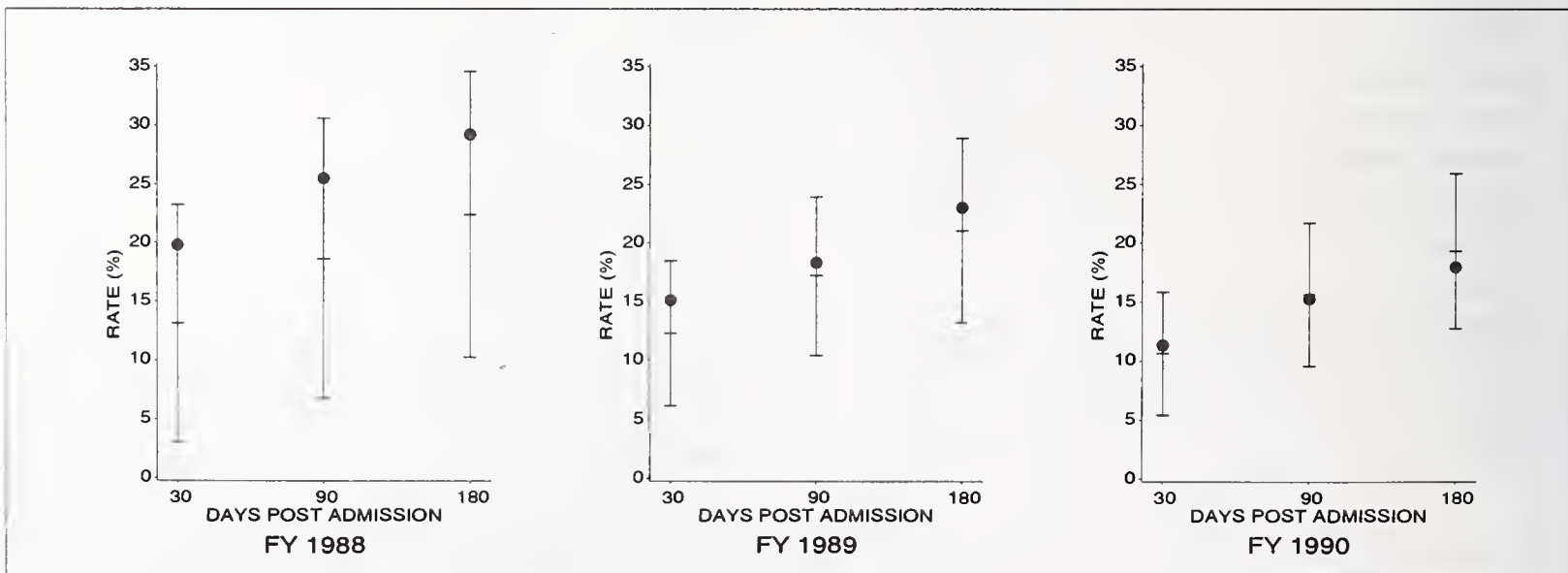
531 2ND ST NW  
BRITT, IA 50423  
Medicare Provider Number: 160095

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 151             | 11.3                | 10.6 | 2.6   | 15.2    | 15.6 | 3.0   | 17.9     | 19.3 | 3.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 12              | 33.3                | 32.4 | ----- | 33.3    | 36.0 | ----- | 33.3     | 39.1 | ----- |
| Congestive Heart Failure.....              | 8               | 50.0                | 15.8 | ----- | 50.0    | 24.9 | ----- | 50.0     | 31.9 | ----- |
| Pneumonia/Influenza.....                   | 10              | 20.0                | 13.3 | ----- | 20.0    | 18.5 | ----- | 20.0     | 22.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1               | 100.0               | 4.5  | ----- | 100.0   | 8.1  | ----- | 100.0    | 11.6 | ----- |
| Transient Cerebral Ischemia.....           | 1               | 0.0                 | 1.7  | ----- | 0.0     | 3.8  | ----- | 0.0      | 6.9  | ----- |
| Stroke.....                                | 10              | 20.0                | 18.3 | ----- | 30.0    | 26.1 | ----- | 50.0     | 30.6 | ----- |
| Hip Fracture.....                          | 4               | 0.0                 | 9.0  | ----- | 0.0     | 14.9 | ----- | 0.0      | 19.0 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 7.0  | ----- | 0.0     | 12.9 | ----- | 0.0      | 16.4 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HANCOCK COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160095

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.6 years  
Proportion female..... 62.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 96.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.7 %  
Admitted for emergency..... 2.0 %

### COMORBIDITIES:

Cancer..... 5.9 %  
Chronic cardiovascular disease..... 48.7 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 7.9 %  
Chronic pulmonary disease..... 15.8 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 9.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 80.8%  
State..... 18.7%  
Outside State..... 0.5%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.6 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 30  
Occupancy Rate..... 43.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 50.1 %  
Case Mix Index (CMI)..... 1.1259

### STAFFING:

Total Number of Physicians..... 11  
Percent of Physicians Board  
Certified Specialists..... 54.5 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 10  
Licensed Practical Nurses..... 0

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HAWARDEN COMMUNITY HOSPITAL

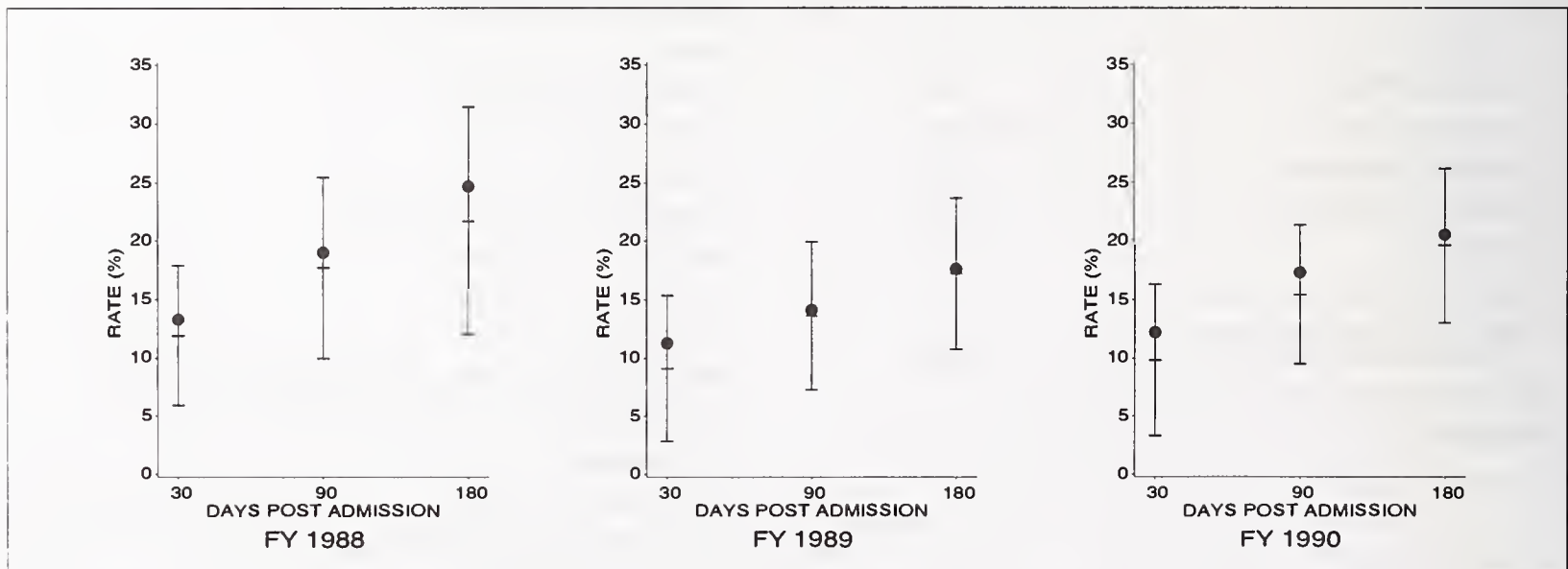
1111 11TH STREET  
HAWARDEN, IA 51023  
Medicare Provider Number: 160134

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 156                | 12.2                | 9.8  | 3.3   | 17.3    | 15.4 | 3.0   | 20.5     | 19.6 | 3.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 9                  | 33.3                | 19.2 | ----- | 44.4    | 22.1 | ----- | 44.4     | 25.2 | ----- |
| Congestive Heart Failure.....              | 15                 | 26.7                | 13.3 | ----- | 26.7    | 21.6 | ----- | 26.7     | 28.3 | ----- |
| Pneumonia/Influenza.....                   | 14                 | 14.3                | 12.8 | ----- | 14.3    | 17.4 | ----- | 14.3     | 21.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4                  | 0.0                 | 5.6  | ----- | 0.0     | 10.4 | ----- | 25.0     | 14.3 | ----- |
| Transient Cerebral Ischemia.....           | 2                  | 0.0                 | 1.6  | ----- | 0.0     | 4.1  | ----- | 0.0      | 7.1  | ----- |
| Stroke.....                                | 5                  | 0.0                 | 16.1 | ----- | 0.0     | 21.9 | ----- | 0.0      | 25.5 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HAWARDEN COMMUNITY HOSPITAL

Medicare Provider Number: 160134

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.7 years  
Proportion female..... 57.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 84.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 8.3 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 5.1 %  
Chronic cardiovascular disease..... 23.7 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 9.0 %  
Chronic pulmonary disease..... 11.5 %  
Cerebrovascular degeneration..... 4.5 %  
Diabetes mellitus..... 11.5 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 54.7%  
State ..... 19.7%  
Outside State ..... 25.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 21  
Occupancy Rate ..... 42.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 45.6 %  
Case Mix Index (CMI) ..... 0.9359

### STAFFING:

Total Number of Physicians..... 15  
Percent of Physicians Board  
Certified Specialists ..... 80.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 10  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HEGG MEMORIAL HEALTH CENTER

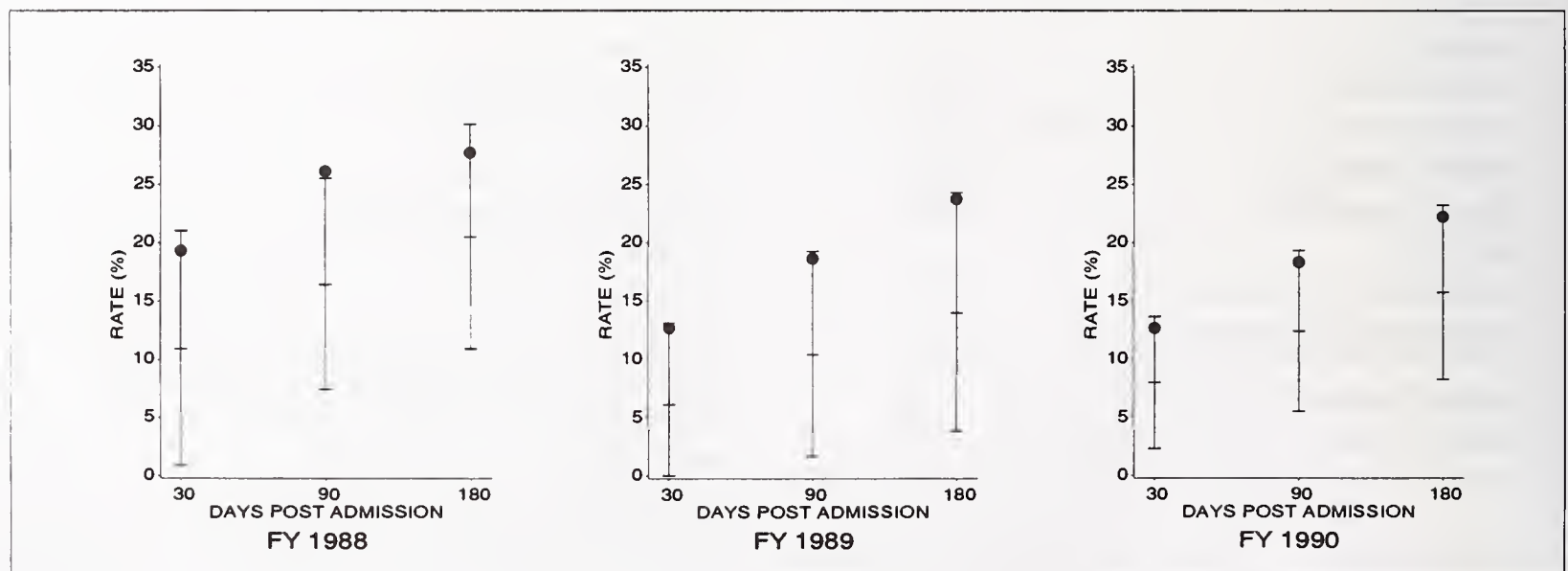
1200-21ST AVE  
ROCK VALLEY, IA 51247  
Medicare Provider Number: 160145

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 126                | 12.7                | 8.0  | 2.8   | 18.3    | 12.4 | 3.5   | 22.2     | 15.7 | 3.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 4                  | 25.0                | 15.3 | ----- | 25.0    | 19.0 | ----- | 25.0     | 21.8 | ----- |
| Congestive Heart Failure.....              | 8                  | 12.5                | 12.7 | ----- | 25.0    | 20.5 | ----- | 25.0     | 26.1 | ----- |
| Pneumonia/Influenza.....                   | 17                 | 23.5                | 14.2 | ----- | 23.5    | 20.2 | ----- | 29.4     | 24.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2                  | 50.0                | 4.5  | ----- | 50.0    | 8.6  | ----- | 50.0     | 12.7 | ----- |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 1                  | 0.0                 | 9.5  | ----- | 0.0     | 14.8 | ----- | 0.0      | 18.4 | ----- |
| Hip Fracture.....                          | 1                  | 100.0               | 17.9 | ----- | 100.0   | 32.7 | ----- | 100.0    | 43.4 | ----- |
| Sepsis.....                                | 5                  | 40.0                | 24.1 | ----- | 60.0    | 34.4 | ----- | 80.0     | 41.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 1                  | 100.0               | 1.0  | ----- | 100.0   | 2.4  | ----- | 100.0    | 4.4  | ----- |
| Cholecystectomy.....                       | 5                  | 0.0                 | 1.0  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.7  | ----- |
| Hysterectomy.....                          | 2                  | 0.0                 | 2.7  | ----- | 0.0     | 4.2  | ----- | 0.0      | 5.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HEGG MEMORIAL HEALTH CENTER

Medicare Provider Number: 160145

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.9 years  
Proportion female..... 57.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 68.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 95.2 %  
Admitted for emergency..... 1.6 %

### COMORBIDITIES:

Cancer..... 2.4 %  
Chronic cardiovascular disease..... 31.0 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 5.6 %  
Chronic pulmonary disease..... 3.2 %  
Cerebrovascular degeneration..... 3.2 %  
Diabetes mellitus..... 12.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 85.6%  
State ..... 10.2%  
Outside State ..... 4.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 123  
Occupancy Rate ..... 81.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 44.1 %  
Case Mix Index (CMI) ..... 1.0290

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 13  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# HENRY COUNTY HEALTH CENTER

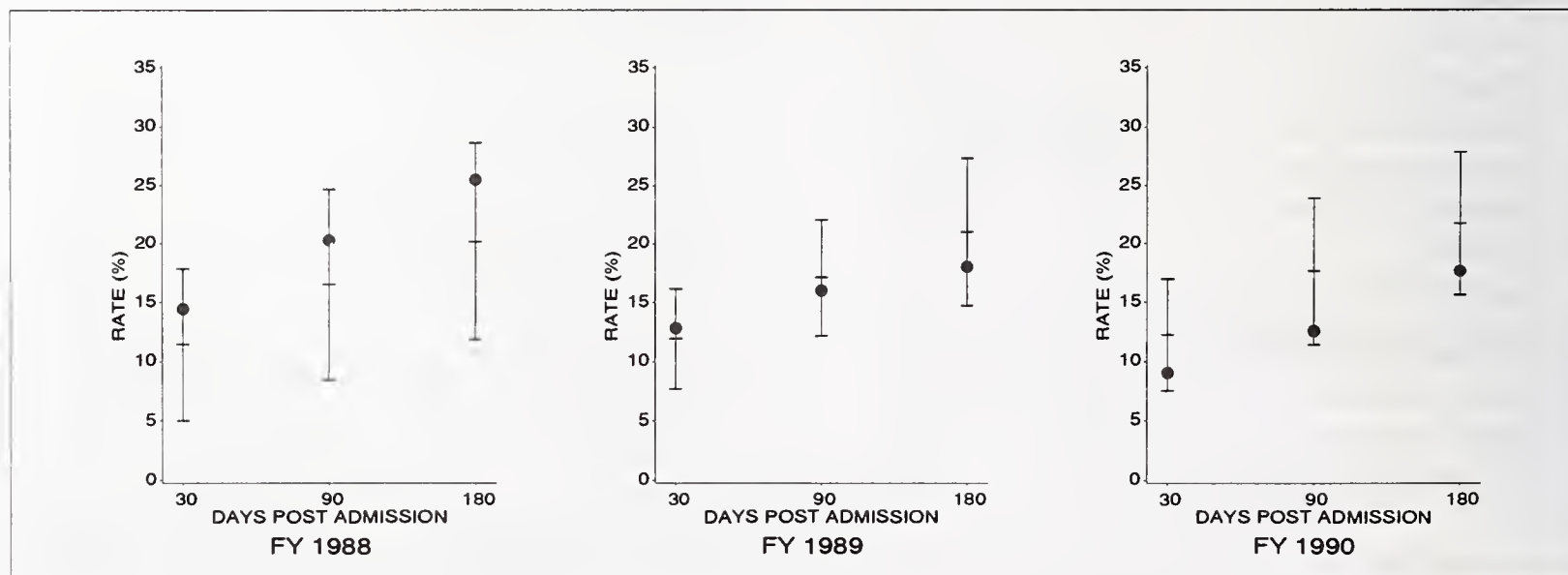
SAUNDERS PARK  
MOUNT PLEASANT, IA 52641  
Medicare Provider Number: 160106

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 289             | 9.0                 | 12.2 | 2.4   | 12.5    | 17.6 | 3.1   | 17.6     | 21.7 | 3.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 14              | 28.6                | 37.5 | ----- | 42.9    | 41.6 | ----- | 64.3     | 45.3 | ----- |
| Congestive Heart Failure.....              | 21              | 19.0                | 17.3 | ----- | 28.6    | 26.9 | ----- | 33.3     | 34.2 | ----- |
| Pneumonia/Influenza.....                   | 27              | 7.4                 | 16.9 | ----- | 7.4     | 22.6 | ----- | 7.4      | 26.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 25.0                | 8.9  | ----- | 25.0    | 16.1 | ----- | 50.0     | 22.1 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 2.5  | ----- | 0.0     | 5.9  | ----- | 16.7     | 10.0 | ----- |
| Stroke.....                                | 17              | 5.9                 | 21.2 | ----- | 11.8    | 28.1 | ----- | 17.6     | 32.3 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 11              | 18.2                | 28.1 | ----- | 18.2    | 36.3 | ----- | 18.2     | 40.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 2               | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.9  | ----- |
| Cholecystectomy.....                       | 5               | 0.0                 | 3.1  | ----- | 0.0     | 6.0  | ----- | 0.0      | 7.8  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 2.5  | ----- | 0.0     | 5.3  | ----- | 0.0      | 8.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HENRY COUNTY HEALTH CENTER

Medicare Provider Number: 160106

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.5 years  
Proportion female..... 56.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 41.9 %  
Transferred from skilled nursing facility..... 11.4 %  
Admitted for elective procedure..... 6.9 %  
Admitted for emergency..... 39.8 %

### COMORBIDITIES:

Cancer..... 6.9 %  
Chronic cardiovascular disease..... 46.0 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 7.3 %  
Chronic pulmonary disease..... 9.7 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 11.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 82.8%  
State..... 15.5%  
Outside State..... 1.7%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.0 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 61  
Occupancy Rate..... 78.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 48.1 %  
Case Mix Index (CMI)..... 1.0538

### STAFFING:

Total Number of Physicians..... 35  
Percent of Physicians Board  
Certified Specialists..... 80.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 37  
Licensed Practical Nurses..... 2

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... Yes  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HOLY FAMILY HOSPITAL

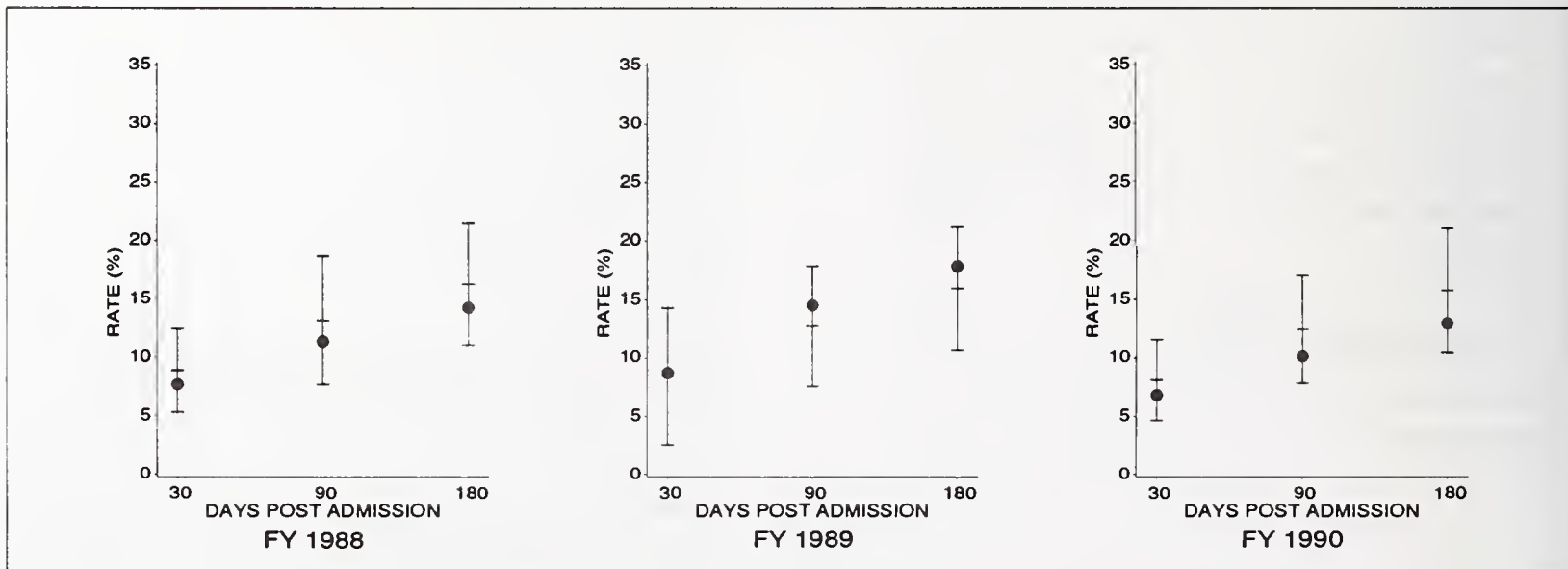
326 N 8TH ST  
ESTHERVILLE, IA 51334  
Medicare Provider Number: 160002

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 456             | 6.8                 | 8.1  | 1.7  | 10.1    | 12.4 | 2.3  | 12.9     | 15.7 | 2.7  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 17              | 29.4                | 31.5 | ---- | 29.4    | 35.2 | ---- | 29.4     | 38.3 | ---- |
| Congestive Heart Failure.....              | 19              | 10.5                | 12.9 | ---- | 10.5    | 20.6 | ---- | 15.8     | 26.4 | ---- |
| Pneumonia/Influenza.....                   | 12              | 8.3                 | 14.9 | ---- | 16.7    | 20.1 | ---- | 16.7     | 23.7 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 9               | 11.1                | 7.6  | ---- | 22.2    | 14.2 | ---- | 33.3     | 18.9 | ---- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 2.9  | ---- | 0.0     | 6.2  | ---- | 0.0      | 9.5  | ---- |
| Stroke.....                                | 9               | 11.1                | 19.7 | ---- | 11.1    | 26.6 | ---- | 22.2     | 30.8 | ---- |
| Hip Fracture.....                          | 0               |                     |      |      |         |      |      |          |      |      |
| Sepsis.....                                | 4               | 25.0                | 31.6 | ---- | 25.0    | 36.0 | ---- | 25.0     | 38.4 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 6               | 16.7                | 1.9  | ---- | 33.3    | 4.1  | ---- | 33.3     | 6.6  | ---- |
| Carotid Endarterectomy.....                | 7               | 14.3                | 1.9  | ---- | 14.3    | 3.6  | ---- | 14.3     | 5.5  | ---- |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 10              | 0.0                 | 0.9  | ---- | 0.0     | 2.2  | ---- | 0.0      | 3.8  | ---- |
| Cholecystectomy.....                       | 9               | 11.1                | 1.4  | ---- | 22.2    | 2.6  | ---- | 22.2     | 3.5  | ---- |
| Hysterectomy.....                          | 4               | 0.0                 | 0.1  | ---- | 0.0     | 0.2  | ---- | 0.0      | 0.3  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HOLY FAMILY HOSPITAL

Medicare Provider Number: 160002

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.1 years  
Proportion female..... 58.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 45.4 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 50.4 %  
Admitted for emergency..... 3.1 %

### COMORBIDITIES:

Cancer..... 5.9 %  
Chronic cardiovascular disease..... 42.1 %  
Chronic liver disease..... 1.3 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 13.8 %  
Cerebrovascular degeneration..... 5.9 %  
Diabetes mellitus..... 9.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 64.3%  
State ..... 21.8%  
Outside State ..... 13.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 58  
Occupancy Rate ..... 48.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 48.1 %  
Case Mix Index (CMI) ..... 1.1808

### STAFFING:

Total Number of Physicians..... 15  
Percent of Physicians Board  
Certified Specialists..... 46.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 42  
Licensed Practical Nurses ..... 12

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HORN MEMORIAL HOSPITAL

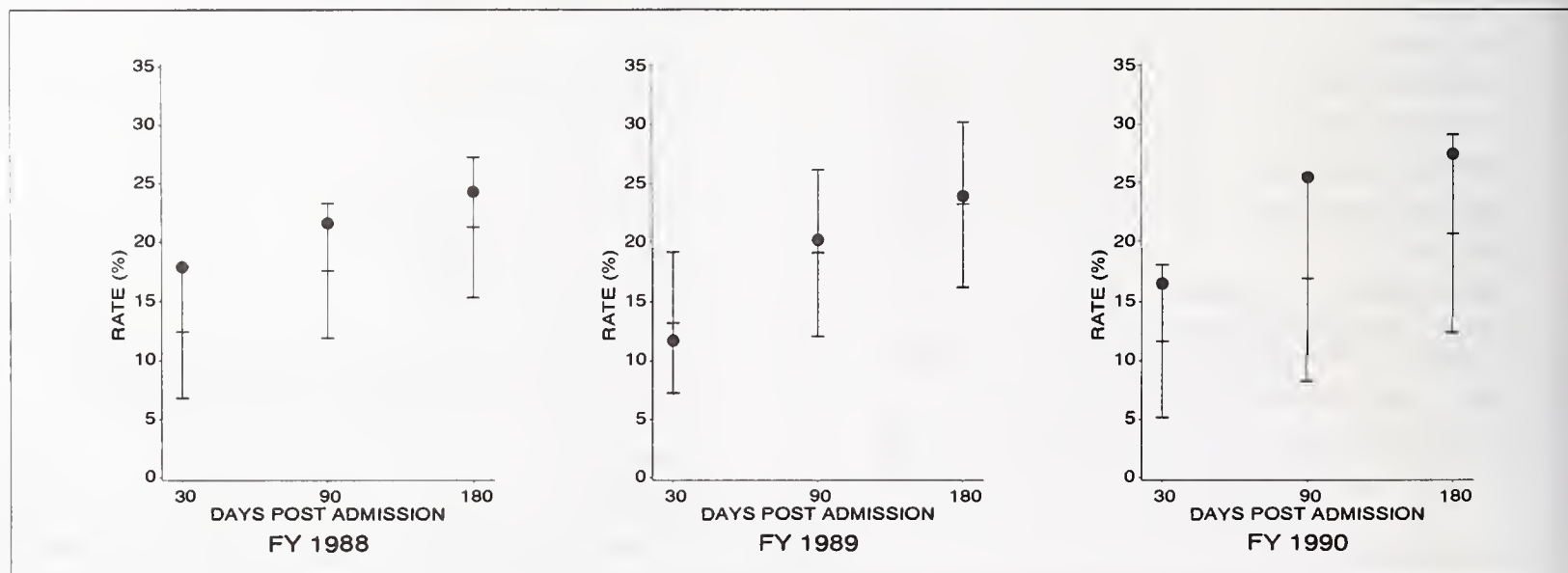
EAST 2ND ST  
IDA GROVE, IA 51445  
Medicare Provider Number: 160131

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 200             | 16.5                | 11.6 | 3.2   | 25.5    | 16.9 | 4.4   | 27.5     | 20.7 | 4.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 10              | 60.0                | 22.3 | ----- | 60.0    | 24.7 | ----- | 60.0     | 27.3 | ----- |
| Congestive Heart Failure.....              | 22              | 18.2                | 14.7 | ----- | 36.4    | 22.9 | ----- | 40.9     | 29.4 | ----- |
| Pneumonia/Influenza.....                   | 22              | 27.3                | 16.5 | ----- | 45.5    | 22.3 | ----- | 45.5     | 26.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 10.6 | ----- | 0.0     | 18.6 | ----- | 50.0     | 23.9 | ----- |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 12              | 16.7                | 16.8 | ----- | 33.3    | 22.1 | ----- | 33.3     | 25.1 | ----- |
| Hip Fracture.....                          | 8               | 0.0                 | 6.5  | ----- | 12.5    | 11.4 | ----- | 12.5     | 14.9 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 0.6  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.6  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5               | 0.0                 | 4.6  | ----- | 20.0    | 8.6  | ----- | 20.0     | 11.6 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 8.2  | ----- | 0.0     | 14.5 | ----- | 0.0      | 18.9 | ----- |
| Prostatectomy.....                         | 4               | 0.0                 | 3.4  | ----- | 0.0     | 7.4  | ----- | 0.0      | 12.0 | ----- |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 1               | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HORN MEMORIAL HOSPITAL

Medicare Provider Number: 160131

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.4 years  
Proportion female..... 56.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 100.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 99.5 %

### COMORBIDITIES:

Cancer..... 5.5 %  
Chronic cardiovascular disease..... 41.5 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 3.5 %  
Chronic pulmonary disease..... 17.0 %  
Cerebrovascular degeneration..... 2.0 %  
Diabetes mellitus..... 13.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 62.7%  
State ..... 35.8%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1989

### PROFILE:

Total Beds ..... 42  
Occupancy Rate ..... 31.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 44.6 %  
Case Mix Index (CMI) ..... 1.1761

### STAFFING:

Total Number of Physicians..... 8  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 21  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# HOWARD COUNTY HOSPITAL

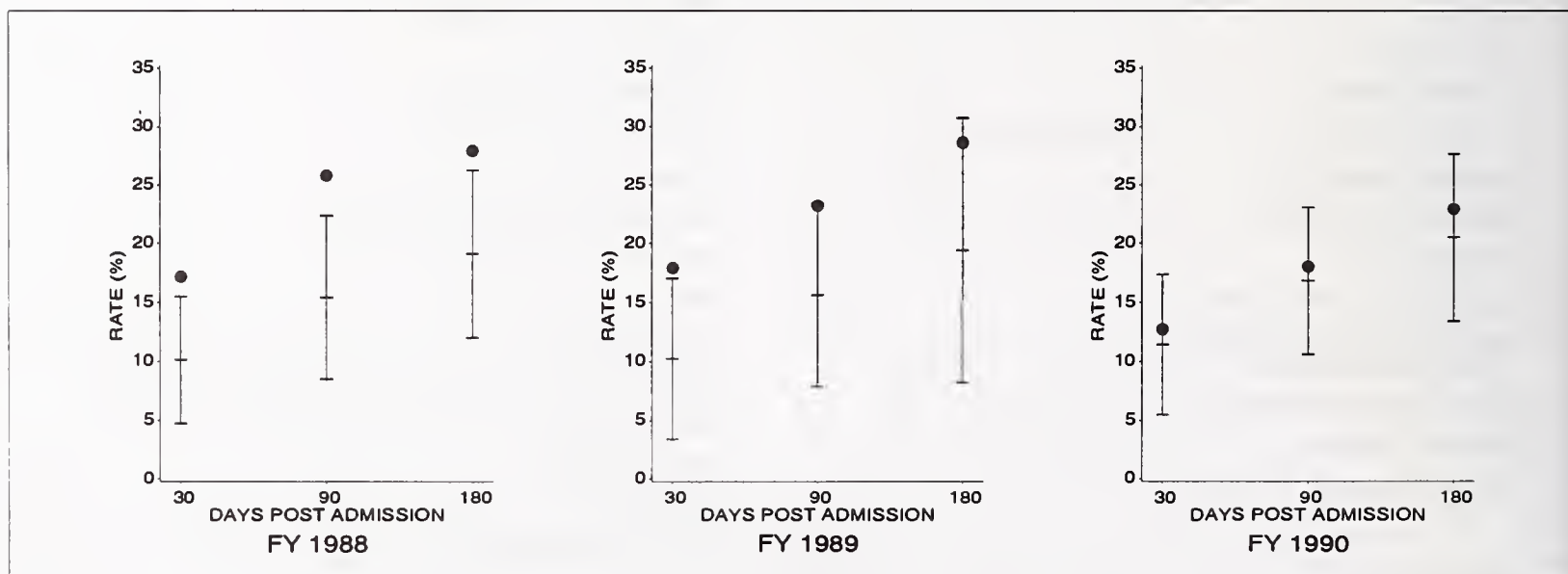
235-8TH AVE WEST  
CRESCO, IA 52136  
Medicare Provider Number: 160068

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 205                | 12.7                | 11.4 | 3.0   | 18.0    | 16.8 | 3.1   | 22.9     | 20.5 | 3.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7                  | 14.3                | 30.8 | ----- | 28.6    | 33.9 | ----- | 28.6     | 36.8 | ----- |
| Congestive Heart Failure.....              | 8                  | 25.0                | 15.0 | ----- | 25.0    | 23.4 | ----- | 37.5     | 30.5 | ----- |
| Pneumonia/Influenza.....                   | 25                 | 28.0                | 18.6 | ----- | 32.0    | 25.0 | ----- | 44.0     | 29.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2                  | 0.0                 | 5.4  | ----- | 0.0     | 10.0 | ----- | 0.0      | 14.3 | ----- |
| Transient Cerebral Ischemia.....           | 2                  | 0.0                 | 2.0  | ----- | 0.0     | 4.8  | ----- | 0.0      | 8.3  | ----- |
| Stroke.....                                | 8                  | 37.5                | 21.9 | ----- | 37.5    | 25.5 | ----- | 37.5     | 28.4 | ----- |
| Hip Fracture.....                          | 2                  | 0.0                 | 20.9 | ----- | 50.0    | 40.0 | ----- | 100.0    | 50.7 | ----- |
| Sepsis.....                                | 1                  | 100.0               | 35.2 | ----- | 100.0   | 39.9 | ----- | 100.0    | 45.0 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1                  | 0.0                 | 26.8 | ----- | 0.0     | 53.8 | ----- | 100.0    | 70.1 | ----- |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 5                  | 0.0                 | 0.6  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.5  | ----- |
| Cholecystectomy.....                       | 10                 | 0.0                 | 2.8  | ----- | 0.0     | 4.9  | ----- | 0.0      | 6.3  | ----- |
| Hysterectomy.....                          | 2                  | 0.0                 | 0.0  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# HOWARD COUNTY HOSPITAL

Medicare Provider Number: 160068

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.7 years

Proportion female..... 57.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 44.9 %

Transferred from skilled nursing facility..... 0.5 %

Admitted for elective procedure..... 14.6 %

Admitted for emergency..... 65.4 %

### COMORBIDITIES:

Cancer..... 5.4 %

Chronic cardiovascular disease..... 36.1 %

Chronic liver disease..... 0.5 %

Chronic renal disease..... 3.4 %

Chronic pulmonary disease..... 8.3 %

Cerebrovascular degeneration..... 7.8 %

Diabetes mellitus..... 7.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 77.8%

State ..... 13.5%

Outside State ..... 8.7%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 42

Occupancy Rate ..... 21.0 %

Ownership/Control..... Local Government

Medicare Discharges ..... 53.7 %

Case Mix Index (CMI) ..... 1.1084

### STAFFING:

Total Number of Physicians..... 10

Percent of Physicians Board  
Certified Specialists..... 60.0 %

Medical Residents/Interns ..... 0

Registered Nurses..... 22

Licensed Practical Nurses..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care ..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... No

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# HUMBOLDT COUNTY MEMORIAL HOSPITAL

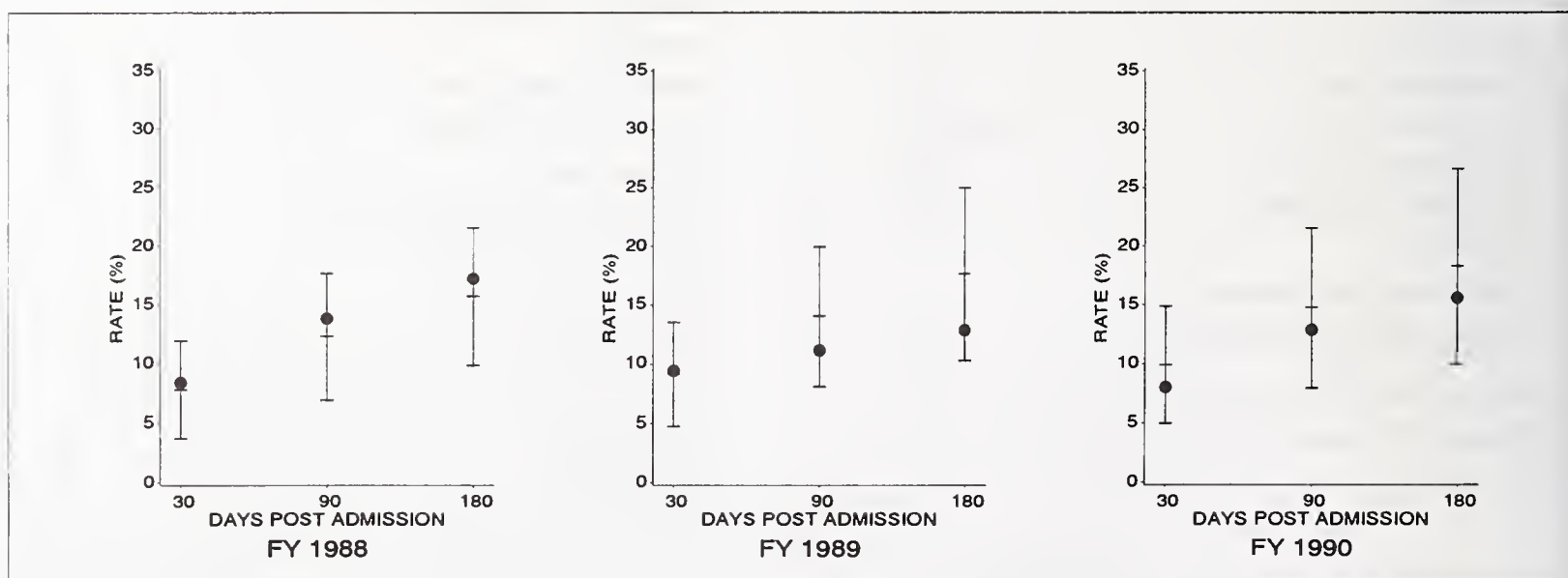
1000 15TH NORTH, BOX 587  
HUMBOLDT, IA 50548  
Medicare Provider Number: 160152

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 187                | 8.0                 | 9.9  | 2.5   | 12.8    | 14.7 | 3.4   | 15.5     | 18.2 | 4.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 4                  | 25.0                | 24.0 | ----- | 25.0    | 26.7 | ----- | 25.0     | 29.5 | ----- |
| Congestive Heart Failure.....              | 13                 | 15.4                | 15.1 | ----- | 15.4    | 23.3 | ----- | 15.4     | 29.3 | ----- |
| Pneumonia/Influenza.....                   | 19                 | 10.5                | 15.9 | ----- | 15.8    | 21.8 | ----- | 21.1     | 26.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 0.0                 | 9.8  | ----- | 0.0     | 16.7 | ----- | 0.0      | 20.6 | ----- |
| Transient Cerebral Ischemia.....           | 4                  | 0.0                 | 3.4  | ----- | 0.0     | 7.2  | ----- | 0.0      | 11.2 | ----- |
| Stroke.....                                | 9                  | 11.1                | 24.5 | ----- | 33.3    | 30.9 | ----- | 33.3     | 35.0 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 8                  | 12.5                | 35.6 | ----- | 25.0    | 42.3 | ----- | 25.0     | 46.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 3                  | 0.0                 | 1.1  | ----- | 0.0     | 3.0  | ----- | 0.0      | 5.3  | ----- |
| Cholecystectomy.....                       | 9                  | 0.0                 | 1.5  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.2  | ----- |
| Hysterectomy.....                          | 3                  | 0.0                 | 0.0  | ----- | 0.0     | 0.1  | ----- | 0.0      | 0.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# HUMBOLDT COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160152

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.4 years  
Proportion female..... 59.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 37.4 %  
Transferred from skilled nursing facility..... 0.5 %  
Admitted for elective procedure..... 11.2 %  
Admitted for emergency..... 55.6 %

### COMORBIDITIES:

Cancer..... 10.7 %  
Chronic cardiovascular disease..... 35.3 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 16.6 %  
Cerebrovascular degeneration..... 3.7 %  
Diabetes mellitus..... 4.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 79.3%  
State ..... 19.2%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 49  
Occupancy Rate ..... 59.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 50.4 %  
Case Mix Index (CMI) ..... 1.0673

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 28  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# IOWA LUTHERAN HOSPITAL

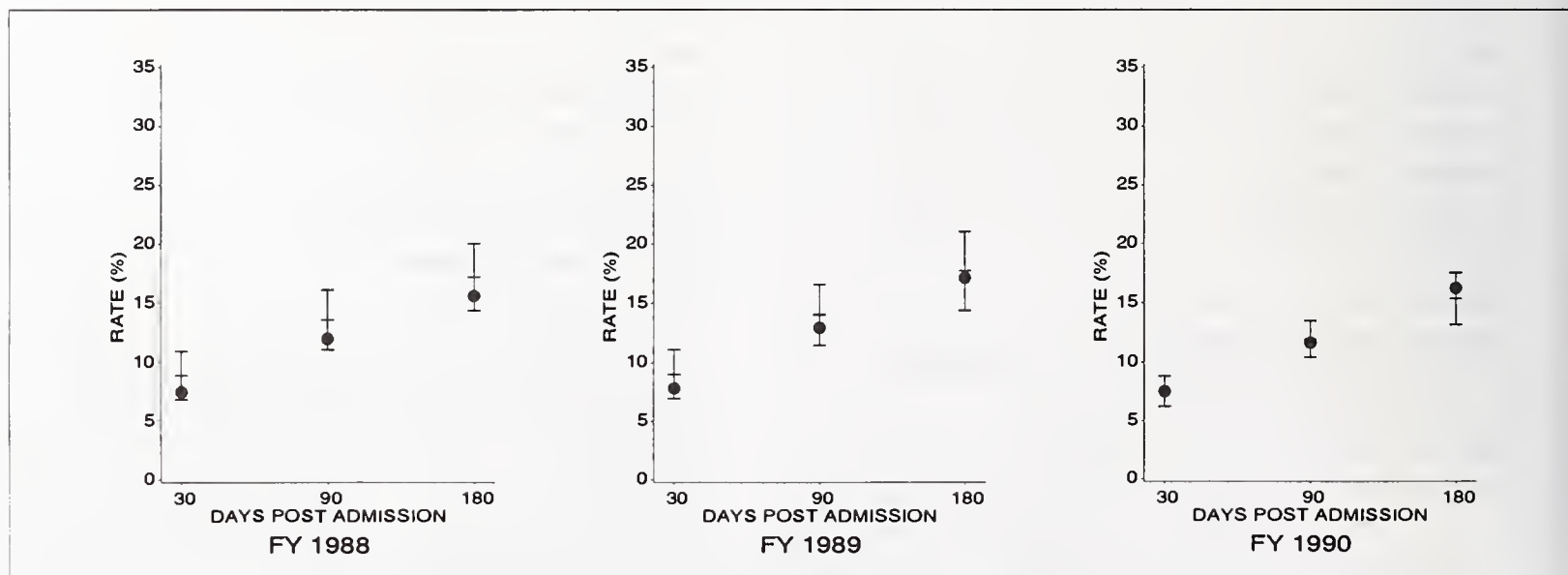
UNIV AND PENN AVE  
DES MOINES, IA 50316  
Medicare Provider Number: 160024

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1795            | 7.5                 | 7.5  | 0.7   | 11.6    | 11.9 | 0.8   | 16.2     | 15.3 | 1.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 39              | 35.9                | 30.8 | ----- | 41.0    | 34.3 | ----- | 43.6     | 37.5 | ----- |
| Congestive Heart Failure.....              | 79              | 6.3                 | 15.2 | 6.4   | 22.8    | 24.4 | 5.4   | 30.4     | 30.8 | 5.3   |
| Pneumonia/Influenza.....                   | 99              | 11.1                | 14.4 | 4.5   | 17.2    | 19.8 | 4.9   | 21.2     | 23.7 | 6.2   |
| Chronic Obstructive Pulmonary Disease..... | 11              | 0.0                 | 8.7  | ----- | 9.1     | 14.8 | ----- | 27.3     | 19.7 | ----- |
| Transient Cerebral Ischemia.....           | 14              | 14.3                | 1.8  | ----- | 14.3    | 3.9  | ----- | 21.4     | 6.4  | ----- |
| Stroke.....                                | 52              | 9.6                 | 17.5 | 10.6  | 15.4    | 23.4 | 12.7  | 19.2     | 27.1 | 13.0  |
| Hip Fracture.....                          | 45              | 8.9                 | 5.8  | ----- | 11.1    | 10.0 | ----- | 13.3     | 13.4 | ----- |
| Sepsis.....                                | 23              | 4.3                 | 17.6 | ----- | 8.7     | 24.0 | ----- | 26.1     | 28.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 14              | 7.1                 | 2.7  | ----- | 7.1     | 3.3  | ----- | 7.1      | 4.1  | ----- |
| Coronary Artery Bypass Graft.....          | 15              | 0.0                 | 2.7  | ----- | 0.0     | 3.5  | ----- | 0.0      | 4.1  | ----- |
| Initial Pacemaker Insertion.....           | 10              | 10.0                | 2.3  | ----- | 10.0    | 4.7  | ----- | 10.0     | 7.3  | ----- |
| Carotid Endarterectomy.....                | 5               | 0.0                 | 1.4  | ----- | 0.0     | 2.7  | ----- | 20.0     | 4.2  | ----- |
| Hip Replacement/Reconstruction.....        | 50              | 4.0                 | 2.1  | ----- | 4.0     | 3.9  | ----- | 4.0      | 5.4  | ----- |
| Open Reduction of Hip Fracture.....        | 12              | 0.0                 | 5.7  | ----- | 8.3     | 9.9  | ----- | 16.7     | 13.5 | ----- |
| Prostatectomy.....                         | 61              | 0.0                 | 1.1  | 1.8   | 1.6     | 2.7  | 2.5   | 4.9      | 4.8  | 2.8   |
| Cholecystectomy.....                       | 43              | 0.0                 | 2.4  | ----- | 0.0     | 4.3  | ----- | 0.0      | 5.7  | ----- |
| Hysterectomy.....                          | 16              | 0.0                 | 1.4  | ----- | 0.0     | 3.0  | ----- | 0.0      | 4.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# IOWA LUTHERAN HOSPITAL

Medicare Provider Number: 160024

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.8 years  
Proportion female..... 59.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 85.7 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 33.0 %  
Admitted for emergency..... 35.8 %

### COMORBIDITIES:

Cancer..... 9.4 %  
Chronic cardiovascular disease..... 36.5 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 5.0 %  
Chronic pulmonary disease..... 15.9 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 7.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 66.2%  
State ..... 31.9%  
Outside State ..... 1.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 349  
Occupancy Rate ..... 72.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 35.2 %  
Case Mix Index (CMI) ..... 1.3123

### STAFFING:

Total Number of Physicians..... 187  
Percent of Physicians Board  
Certified Specialists ..... 78.6 %  
Medical Residents/Interns ..... 20  
Registered Nurses..... 368  
Licensed Practical Nurses ..... 20

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# IOWA METHODIST MEDICAL CENTER

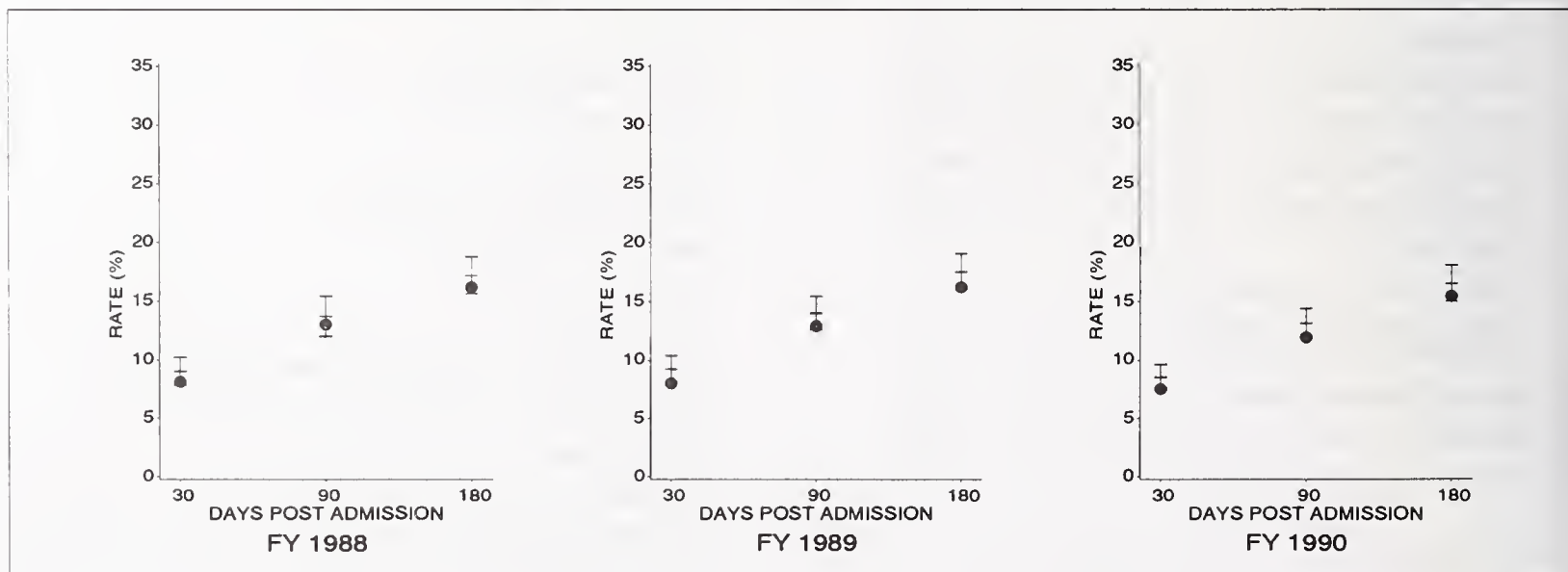
1200 PLEASANT ST  
DES MOINES, IA 50308  
Medicare Provider Number: 160082

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 4527            | 7.5                 | 8.5  | 0.6   | 11.9    | 13.1 | 0.6   | 15.4     | 16.5 | 0.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 128             | 25.0                | 27.8 | 6.6   | 28.9    | 30.5 | 6.9   | 32.8     | 33.0 | 6.4   |
| Congestive Heart Failure.....              | 95              | 18.9                | 15.3 | 5.5   | 26.3    | 24.2 | 6.1   | 32.6     | 30.7 | 7.4   |
| Pneumonia/Influenza.....                   | 106             | 16.0                | 16.2 | 4.4   | 20.8    | 22.4 | 4.4   | 24.5     | 26.2 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 33              | 9.1                 | 8.0  | ----- | 12.1    | 14.4 | ----- | 21.2     | 19.1 | ----- |
| Transient Cerebral Ischemia.....           | 46              | 4.3                 | 1.8  | ----- | 6.5     | 4.2  | ----- | 8.7      | 6.9  | ----- |
| Stroke.....                                | 118             | 19.5                | 23.2 | 4.3   | 22.9    | 29.5 | 5.5   | 27.1     | 33.5 | 6.0   |
| Hip Fracture.....                          | 129             | 9.3                 | 8.3  | 2.6   | 12.4    | 14.4 | 3.5   | 16.3     | 18.4 | 3.7   |
| Sepsis.....                                | 63              | 19.0                | 30.7 | 6.7   | 34.9    | 40.8 | 9.1   | 39.7     | 46.4 | 6.6   |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 132             | 3.8                 | 4.2  | 2.5   | 4.5     | 5.3  | 2.0   | 6.8      | 6.3  | 2.1   |
| Coronary Artery Bypass Graft.....          | 176             | 6.2                 | 5.7  | 2.2   | 8.5     | 7.9  | 2.1   | 8.5      | 8.9  | 2.2   |
| Initial Pacemaker Insertion.....           | 43              | 2.3                 | 2.7  | ----- | 4.7     | 5.7  | ----- | 4.7      | 8.4  | ----- |
| Carotid Endarterectomy.....                | 31              | 3.2                 | 1.4  | ----- | 3.2     | 2.5  | ----- | 6.5      | 3.7  | ----- |
| Hip Replacement/Reconstruction.....        | 205             | 1.5                 | 2.4  | 1.5   | 3.9     | 4.4  | 1.8   | 5.4      | 5.9  | 1.7   |
| Open Reduction of Hip Fracture.....        | 71              | 9.9                 | 8.0  | 3.5   | 11.3    | 13.9 | 4.6   | 14.1     | 17.8 | 5.4   |
| Prostatectomy.....                         | 142             | 1.4                 | 1.0  | 1.2   | 2.1     | 2.5  | 1.7   | 2.1      | 4.3  | 2.6   |
| Cholecystectomy.....                       | 82              | 3.7                 | 2.4  | 2.2   | 6.1     | 4.4  | 2.7   | 8.5      | 5.9  | 3.5   |
| Hysterectomy.....                          | 36              | 0.0                 | 0.6  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# IOWA METHODIST MEDICAL CENTER

Medicare Provider Number: 160082

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.0 years  
Proportion female..... 54.3 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 53.6 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 34.9 %  
Admitted for emergency..... 38.8 %

### COMORBIDITIES:

Cancer..... 12.0 %  
Chronic cardiovascular disease..... 31.7 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 11.1 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 5.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 41.9%  
State ..... 55.9%  
Outside State ..... 2.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 9.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 680  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 32.5 %  
Case Mix Index (CMI) ..... 1.6128

### STAFFING:

Total Number of Physicians..... 432  
Percent of Physicians Board  
Certified Specialists..... 75.2 %  
Medical Residents/Interns ..... 32  
Registered Nurses..... 607  
Licensed Practical Nurses..... 25

### SPECIALTY SERVICES:

Burn Unit ..... Yes  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# JACKSON COUNTY PUBLIC HOSPITAL

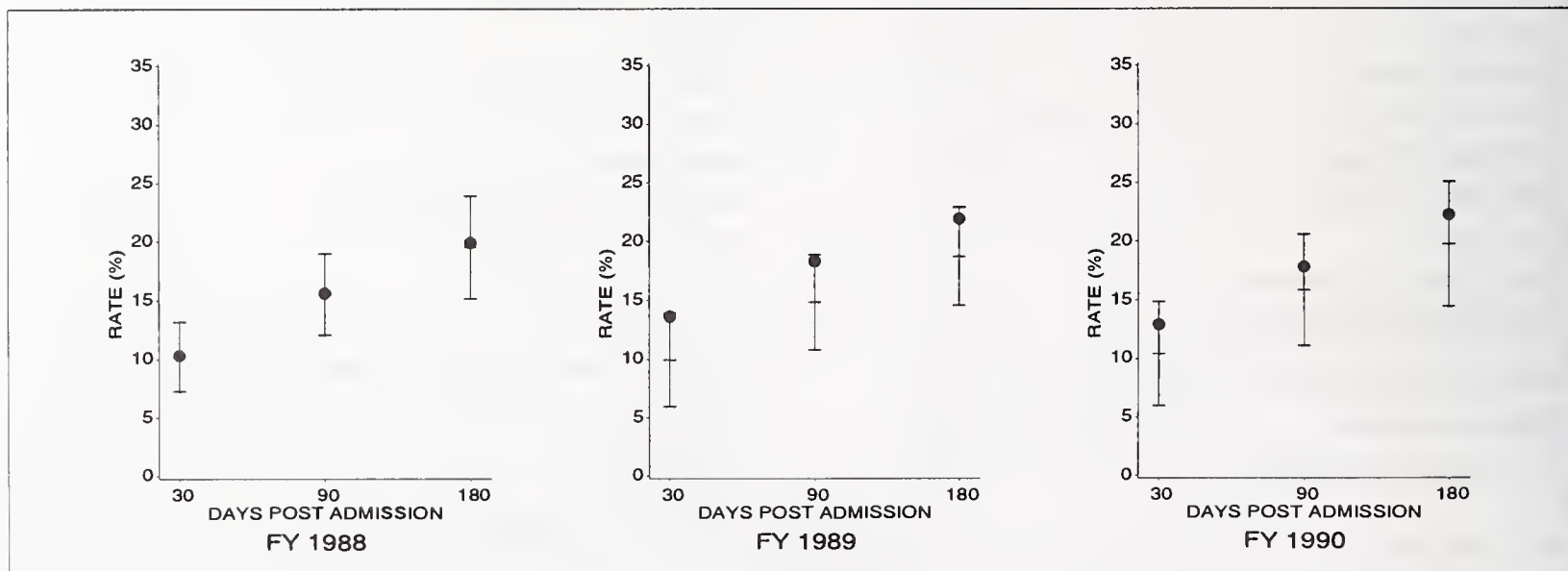
700 W GROVE ST  
MAQUOKETA, IA 52060  
Medicare Provider Number: 160056

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 465             | 12.9                | 10.4 | 2.2   | 17.8    | 15.8 | 2.4   | 22.2     | 19.7 | 2.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 20              | 35.0                | 24.9 | ----- | 35.0    | 27.5 | ----- | 35.0     | 30.0 | ----- |
| Congestive Heart Failure.....              | 34              | 14.7                | 16.4 | ----- | 23.5    | 25.4 | ----- | 29.4     | 31.7 | ----- |
| Pneumonia/Influenza.....                   | 34              | 17.6                | 13.5 | ----- | 20.6    | 18.6 | ----- | 26.5     | 22.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 19              | 10.5                | 12.1 | ----- | 15.8    | 18.9 | ----- | 21.1     | 23.8 | ----- |
| Transient Cerebral Ischemia.....           | 13              | 0.0                 | 1.5  | ----- | 7.7     | 3.7  | ----- | 15.4     | 6.3  | ----- |
| Stroke.....                                | 17              | 35.3                | 20.0 | ----- | 35.3    | 27.6 | ----- | 41.2     | 32.3 | ----- |
| Hip Fracture.....                          | 5               | 0.0                 | 5.1  | ----- | 20.0    | 9.1  | ----- | 20.0     | 12.5 | ----- |
| Sepsis.....                                | 6               | 33.3                | 25.0 | ----- | 50.0    | 34.2 | ----- | 50.0     | 39.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 3               | 0.0                 | 6.1  | ----- | 0.0     | 10.8 | ----- | 0.0      | 15.0 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 3.7  | ----- | 33.3    | 7.2  | ----- | 33.3     | 10.1 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 6               | 0.0                 | 5.1  | ----- | 16.7    | 10.4 | ----- | 33.3     | 14.7 | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.6  | ----- | 0.0     | 1.7  | ----- | 0.0      | 3.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# JACKSON COUNTY PUBLIC HOSPITAL

Medicare Provider Number: 160056

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.9 years  
Proportion female..... 59.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 33.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 24.5 %  
Admitted for emergency..... 17.2 %

### COMORBIDITIES:

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 31.8 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 17.4 %  
Cerebrovascular degeneration..... 4.1 %  
Diabetes mellitus..... 8.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 67.2%  
State ..... 32.1%  
Outside State ..... 0.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 61  
Occupancy Rate ..... 45.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 54.5 %  
Case Mix Index (CMI) ..... 1.0362

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists ..... 58.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 47  
Licensed Practical Nurses ..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# JEFFERSON COUNTY HOSPITAL

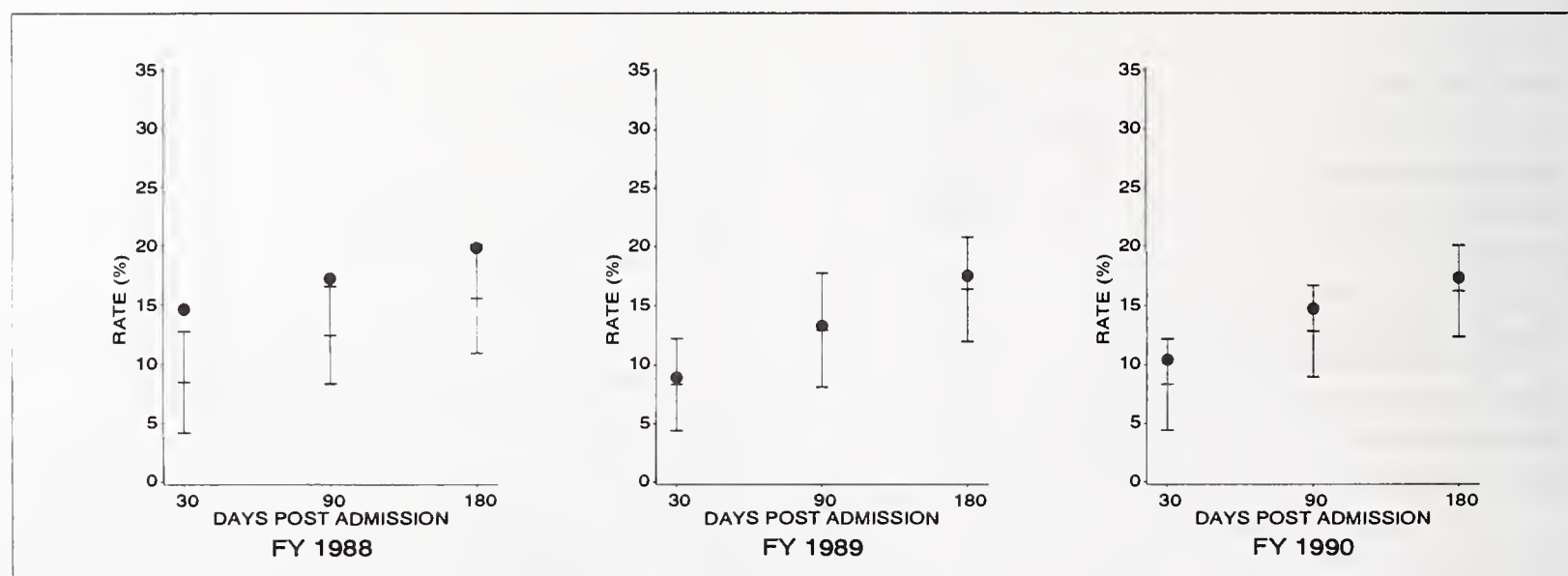
400 HIGHLAND  
FAIRFIELD, IA 52556  
Medicare Provider Number: 160115

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 423                | 10.4                | 8.3  | 1.9  | 14.7    | 12.8 | 1.9  | 17.3     | 16.2 | 1.9  |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 20                 | 40.0                | 27.6 | ---- | 45.0    | 32.3 | ---- | 55.0     | 35.4 | ---- |
| Congestive Heart Failure.....              | 21                 | 19.0                | 16.2 | ---- | 23.8    | 25.9 | ---- | 33.3     | 32.6 | ---- |
| Pneumonia/Influenza.....                   | 19                 | 15.8                | 12.5 | ---- | 15.8    | 17.4 | ---- | 15.8     | 21.2 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 0.0                 | 6.2  | ---- | 0.0     | 12.1 | ---- | 0.0      | 16.8 | ---- |
| Transient Cerebral Ischemia.....           | 10                 | 0.0                 | 1.6  | ---- | 0.0     | 3.8  | ---- | 0.0      | 6.5  | ---- |
| Stroke.....                                | 21                 | 23.8                | 14.2 | ---- | 33.3    | 20.8 | ---- | 42.9     | 24.5 | ---- |
| Hip Fracture.....                          | 18                 | 5.6                 | 5.7  | ---- | 11.1    | 10.3 | ---- | 11.1     | 13.4 | ---- |
| Sepsis.....                                | 3                  | 33.3                | 31.4 | ---- | 66.7    | 40.3 | ---- | 66.7     | 45.7 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 4                  | 25.0                | 7.7  | ---- | 25.0    | 13.2 | ---- | 25.0     | 19.0 | ---- |
| Carotid Endarterectomy.....                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 3                  | 33.3                | 5.4  | ---- | 33.3    | 9.5  | ---- | 33.3     | 13.0 | ---- |
| Open Reduction of Hip Fracture.....        | 13                 | 0.0                 | 5.0  | ---- | 0.0     | 9.4  | ---- | 0.0      | 12.5 | ---- |
| Prostatectomy.....                         | 11                 | 0.0                 | 1.2  | ---- | 0.0     | 2.7  | ---- | 0.0      | 4.5  | ---- |
| Cholecystectomy.....                       | 15                 | 0.0                 | 0.6  | ---- | 0.0     | 1.1  | ---- | 0.0      | 1.6  | ---- |
| Hysterectomy.....                          | 2                  | 0.0                 | 0.4  | ---- | 0.0     | 0.8  | ---- | 0.0      | 1.4  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# JEFFERSON COUNTY HOSPITAL

Medicare Provider Number: 160115

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.5 years  
Proportion female..... 59.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 91.0 %  
Transferred from skilled nursing facility..... 0.2 %  
Admitted for elective procedure..... 4.0 %  
Admitted for emergency..... 1.4 %

### COMORBIDITIES:

Cancer..... 8.5 %  
Chronic cardiovascular disease..... 30.0 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 4.3 %  
Chronic pulmonary disease..... 16.8 %  
Cerebrovascular degeneration..... 3.1 %  
Diabetes mellitus..... 8.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 68.8%  
State ..... 29.6%  
Outside State ..... 1.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 67  
Occupancy Rate ..... 77.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 32.4 %  
Case Mix Index (CMI) ..... 1.0758

### STAFFING:

Total Number of Physicians..... 11  
Percent of Physicians Board  
Certified Specialists..... 81.8 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 34  
Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# JENNIE EDMUNDSON HOSPITAL

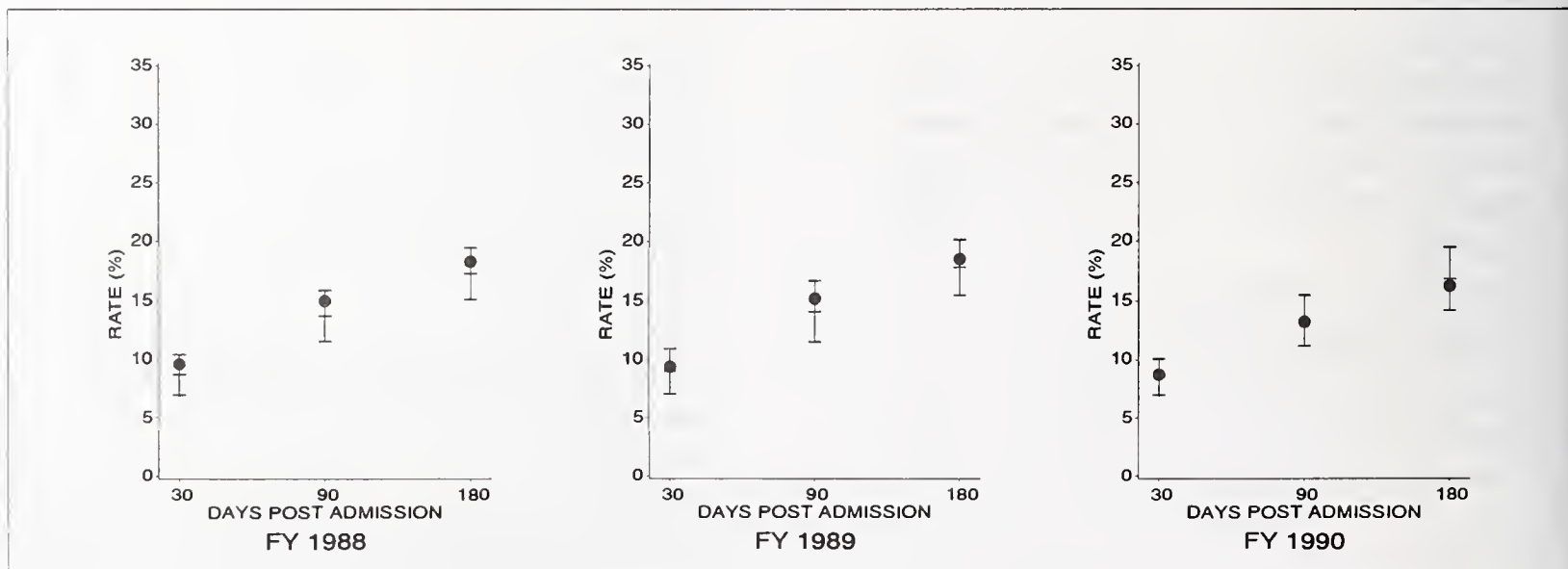
933 EAST PIERCE STREET  
COUNCIL BLUFFS, IA 51501  
Medicare Provider Number: 160047

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1588            | 8.7                 | 8.5  | 0.8   | 13.2    | 13.3 | 1.1   | 16.2     | 16.8 | 1.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 46              | 26.1                | 27.5 | ----- | 26.1    | 30.6 | ----- | 30.4     | 33.4 | ----- |
| Congestive Heart Failure.....              | 67              | 13.4                | 15.3 | 4.9   | 17.9    | 23.9 | 8.2   | 23.9     | 30.3 | 8.7   |
| Pneumonia/Influenza.....                   | 76              | 21.1                | 15.4 | 6.8   | 27.6    | 20.8 | 7.5   | 32.9     | 24.3 | 8.6   |
| Chronic Obstructive Pulmonary Disease..... | 25              | 0.0                 | 7.7  | ----- | 16.0    | 13.4 | ----- | 20.0     | 17.4 | ----- |
| Transient Cerebral Ischemia.....           | 18              | 0.0                 | 2.3  | ----- | 0.0     | 5.3  | ----- | 5.6      | 8.5  | ----- |
| Stroke.....                                | 56              | 14.3                | 18.4 | 6.9   | 21.4    | 25.1 | 6.7   | 25.0     | 29.1 | 6.9   |
| Hip Fracture.....                          | 58              | 1.7                 | 6.0  | 5.2   | 6.9     | 10.5 | 7.4   | 8.6      | 13.6 | 7.8   |
| Sepsis.....                                | 11              | 27.3                | 27.6 | ----- | 36.4    | 38.7 | ----- | 36.4     | 43.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 18              | 0.0                 | 5.3  | ----- | 5.6     | 9.6  | ----- | 11.1     | 12.7 | ----- |
| Carotid Endarterectomy.....                | 8               | 0.0                 | 1.4  | ----- | 0.0     | 2.4  | ----- | 0.0      | 3.6  | ----- |
| Hip Replacement/Reconstruction.....        | 63              | 0.0                 | 2.2  | 2.5   | 3.2     | 4.1  | 2.9   | 4.8      | 5.7  | 3.0   |
| Open Reduction of Hip Fracture.....        | 31              | 3.2                 | 5.5  | ----- | 9.7     | 9.9  | ----- | 9.7      | 13.0 | ----- |
| Prostatectomy.....                         | 30              | 0.0                 | 1.4  | ----- | 0.0     | 3.2  | ----- | 0.0      | 5.3  | ----- |
| Cholecystectomy.....                       | 24              | 4.2                 | 1.5  | ----- | 4.2     | 2.5  | ----- | 4.2      | 3.4  | ----- |
| Hysterectomy.....                          | 9               | 0.0                 | 1.1  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# JENNIE EDMUNDSON HOSPITAL

Medicare Provider Number: 160047

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.9 years  
Proportion female..... 57.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 54.4 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 2.0 %  
Admitted for emergency..... 43.5 %

### COMORBIDITIES:

Cancer..... 8.6 %  
Chronic cardiovascular disease..... 36.6 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 2.5 %  
Chronic pulmonary disease..... 12.9 %  
Cerebrovascular degeneration..... 3.1 %  
Diabetes mellitus..... 6.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 60.3%  
State ..... 36.1%  
Outside State ..... 3.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 10.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 255  
Occupancy Rate ..... 60.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 41.2 %  
Case Mix Index (CMI) ..... 1.3440

### STAFFING:

Total Number of Physicians..... 88  
Percent of Physicians Board  
Certified Specialists..... 77.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 141  
Licensed Practical Nurses..... 44

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# JOHN MCDONALD HOSPITAL

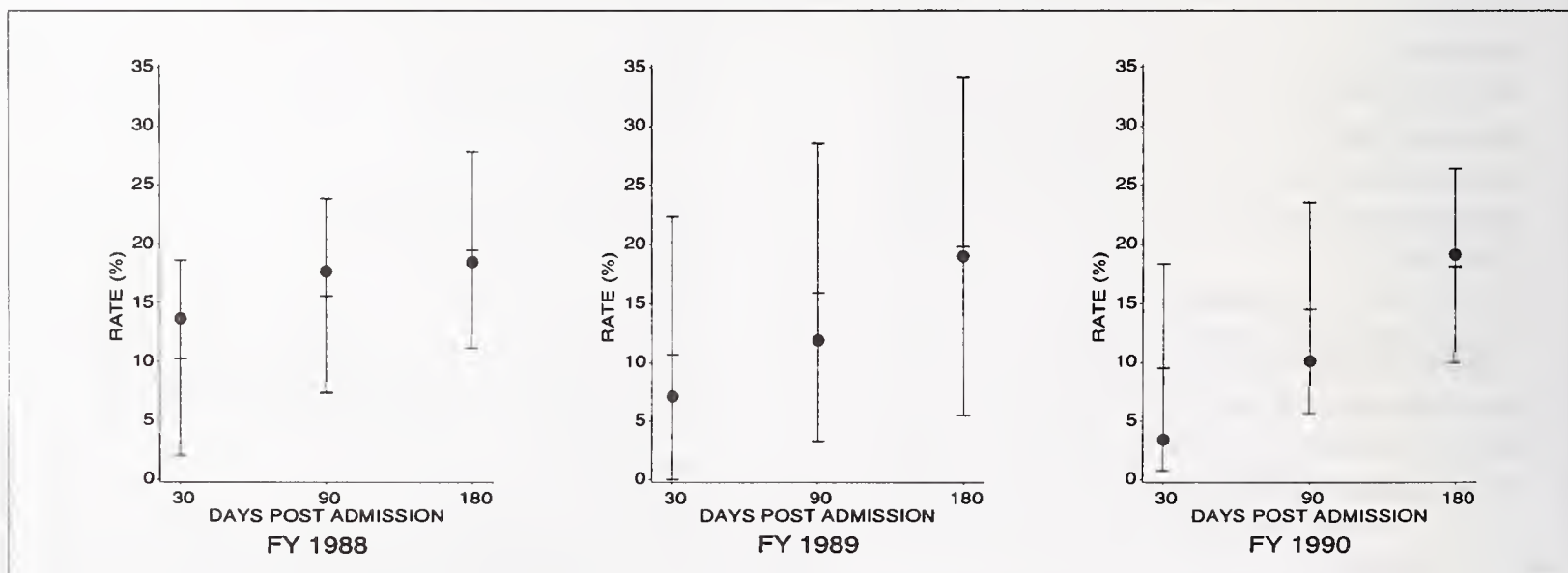
WEST FIRST STREET  
MONTICELLO, IA 52310  
Medicare Provider Number: 160119

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 89              | 3.4                 | 9.5  | 4.4   | 10.1    | 14.5 | 4.5   | 19.1     | 18.1 | 4.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 3               | 33.3                | 26.8 | ----- | 33.3    | 31.0 | ----- | 33.3     | 35.8 | ----- |
| Congestive Heart Failure.....              | 10              | 20.0                | 21.7 | ----- | 50.0    | 33.5 | ----- | 60.0     | 40.1 | ----- |
| Pneumonia/Influenza.....                   | 12              | 0.0                 | 13.2 | ----- | 8.3     | 19.0 | ----- | 16.7     | 22.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6               | 0.0                 | 4.6  | ----- | 0.0     | 8.3  | ----- | 33.3     | 11.7 | ----- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.0  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.5  | ----- |
| Stroke.....                                | 2               | 0.0                 | 27.4 | ----- | 50.0    | 39.0 | ----- | 50.0     | 46.1 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 0.0                 | 23.8 | ----- | 0.0     | 28.3 | ----- | 0.0      | 31.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# JOHN MCDONALD HOSPITAL

Medicare Provider Number: 160119

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.4 years  
Proportion female..... 68.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 93.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 5.6 %  
Chronic cardiovascular disease..... 25.8 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 5.6 %  
Chronic pulmonary disease..... 20.2 %  
Cerebrovascular degeneration..... 4.5 %  
Diabetes mellitus..... 6.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.9%  
State ..... 15.4%  
Outside State ..... 0.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 34  
Occupancy Rate ..... 26.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 46.3 %  
Case Mix Index (CMI) ..... 0.8733

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 17  
Licensed Practical Nurses ..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# KEOKUK AREA HOSPITAL

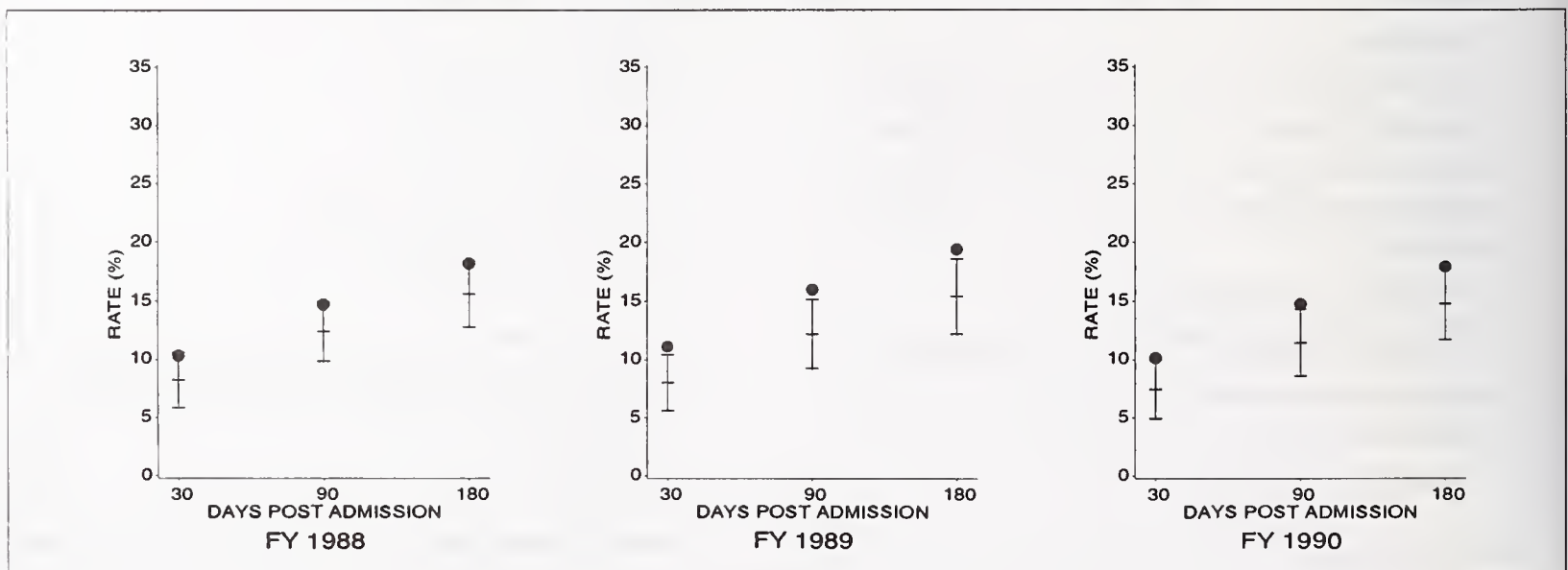
1600 MORGAN ST  
KEOKUK, IA 52632  
Medicare Provider Number: 160008

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 907             | 10.1                | 7.4  | 1.3   | 14.7    | 11.4 | 1.4   | 17.9     | 14.7 | 1.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 42              | 35.7                | 22.4 | ----- | 38.1    | 26.0 | ----- | 40.5     | 28.9 | ----- |
| Congestive Heart Failure.....              | 26              | 11.5                | 13.2 | ----- | 15.4    | 22.0 | ----- | 23.1     | 28.5 | ----- |
| Pneumonia/Influenza.....                   | 62              | 21.0                | 11.0 | 6.3   | 29.0    | 16.0 | 8.1   | 30.6     | 19.7 | 8.8   |
| Chronic Obstructive Pulmonary Disease..... | 22              | 4.5                 | 5.2  | ----- | 9.1     | 9.1  | ----- | 9.1      | 12.2 | ----- |
| Transient Cerebral Ischemia.....           | 28              | 3.6                 | 1.7  | ----- | 3.6     | 4.1  | ----- | 3.6      | 7.1  | ----- |
| Stroke.....                                | 39              | 12.8                | 13.7 | ----- | 20.5    | 19.7 | ----- | 25.6     | 23.5 | ----- |
| Hip Fracture.....                          | 29              | 3.4                 | 4.4  | ----- | 10.3    | 8.4  | ----- | 17.2     | 11.6 | ----- |
| Sepsis.....                                | 12              | 50.0                | 27.7 | ----- | 66.7    | 36.3 | ----- | 66.7     | 41.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 5               | 0.0                 | 6.5  | ----- | 0.0     | 11.0 | ----- | 0.0      | 14.7 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 12              | 8.3                 | 2.6  | ----- | 8.3     | 5.2  | ----- | 8.3      | 7.5  | ----- |
| Open Reduction of Hip Fracture.....        | 15              | 0.0                 | 4.4  | ----- | 6.7     | 8.6  | ----- | 20.0     | 12.1 | ----- |
| Prostatectomy.....                         | 10              | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.8  | ----- |
| Cholecystectomy.....                       | 12              | 0.0                 | 1.1  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.5  | ----- |
| Hysterectomy.....                          | 6               | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# KEOKUK AREA HOSPITAL

Medicare Provider Number: 160008

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.7 years  
Proportion female..... 61.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 65.2 %  
Admitted for emergency..... 34.5 %

### COMORBIDITIES:

Cancer..... 6.9 %  
Chronic cardiovascular disease..... 32.7 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 14.8 %  
Cerebrovascular degeneration..... 4.9 %  
Diabetes mellitus..... 8.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 57.2%  
State..... 2.7%  
Outside State..... 40.1%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.9 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 113  
Occupancy Rate..... 54.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 46.6 %  
Case Mix Index (CMI)..... 1.0650

### STAFFING:

Total Number of Physicians..... 24  
Percent of Physicians Board  
Certified Specialists..... 62.5 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 69  
Licensed Practical Nurses..... 18

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# KEOKUK COUNTY HOSPITAL

SOUTH MAIN RR3  
SIGOURNEY, IA 52591  
Medicare Provider Number: 160120

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 46                 | 26.1                | 18.1 | ---- | 32.6    | 25.4 | ---- | 34.8     | 30.2 | ---- |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 5                  | 40.0                | 27.0 | ---- | 40.0    | 32.1 | ---- | 40.0     | 36.3 | ---- |
| Congestive Heart Failure.....              | 7                  | 0.0                 | 13.5 | ---- | 14.3    | 21.3 | ---- | 14.3     | 26.6 | ---- |
| Pneumonia/Influenza.....                   | 4                  | 75.0                | 15.7 | ---- | 75.0    | 22.3 | ---- | 75.0     | 26.3 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |      |         |      |      |          |      |      |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |      |         |      |      |          |      |      |
| Stroke.....                                | 2                  | 50.0                | 25.0 | ---- | 50.0    | 36.8 | ---- | 50.0     | 42.9 | ---- |
| Hip Fracture.....                          | 0                  |                     |      |      |         |      |      |          |      |      |
| Sepsis.....                                | 2                  | 50.0                | 25.6 | ---- | 100.0   | 31.1 | ---- | 100.0    | 38.0 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 0                  |                     |      |      |         |      |      |          |      |      |
| Cholecystectomy.....                       | 0                  |                     |      |      |         |      |      |          |      |      |
| Hysterectomy.....                          | 0                  |                     |      |      |         |      |      |          |      |      |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

# KEOKUK COUNTY HOSPITAL

Medicare Provider Number: 160120

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 83.3 years  
Proportion female..... 73.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 95.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 6.5 %  
Chronic cardiovascular disease..... 41.3 %  
Chronic liver disease..... 4.3 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 6.5 %  
Cerebrovascular degeneration..... 4.3 %  
Diabetes mellitus..... 2.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 89.4%  
State ..... 6.1%  
Outside State ..... 4.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 3.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 33  
Occupancy Rate ..... 54.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 87.6 %  
Case Mix Index (CMI) ..... 0.9932

### STAFFING:

Total Number of Physicians..... 26  
Percent of Physicians Board  
Certified Specialists..... 38.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 9  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# KNOXVILLE AREA COMMUNITY HOSPITAL

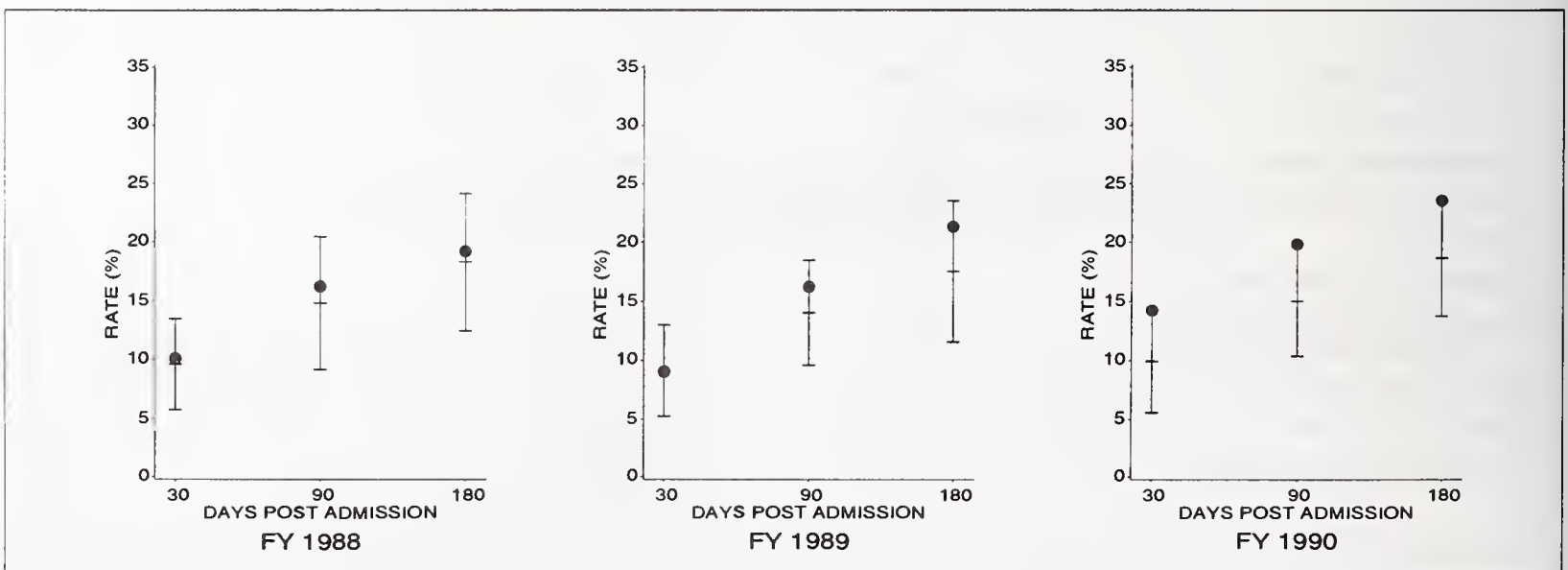
1002 SOUTH LINCOLN  
KNOXVILLE, IA 50138  
Medicare Provider Number: 160114

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 429             | 14.2                | 9.9  | 2.2   | 19.8    | 15.0 | 2.3   | 23.5     | 18.6 | 2.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 14              | 57.1                | 28.3 | ----- | 57.1    | 32.1 | ----- | 57.1     | 35.4 | ----- |
| Congestive Heart Failure.....              | 24              | 29.2                | 13.6 | ----- | 37.5    | 22.6 | ----- | 45.8     | 29.1 | ----- |
| Pneumonia/Influenza.....                   | 47              | 21.3                | 14.8 | ----- | 29.8    | 20.9 | ----- | 29.8     | 24.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 0.0                 | 4.8  | ----- | 0.0     | 7.7  | ----- | 0.0      | 10.8 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.3  | ----- | 25.0    | 3.4  | ----- | 25.0     | 5.9  | ----- |
| Stroke.....                                | 19              | 21.1                | 22.0 | ----- | 26.3    | 28.8 | ----- | 31.6     | 32.7 | ----- |
| Hip Fracture.....                          | 9               | 0.0                 | 3.9  | ----- | 0.0     | 7.8  | ----- | 0.0      | 10.9 | ----- |
| Sepsis.....                                | 1               | 100.0               | 20.4 | ----- | 100.0   | 29.5 | ----- | 100.0    | 38.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5               | 0.0                 | 3.4  | ----- | 0.0     | 6.9  | ----- | 0.0      | 9.9  | ----- |
| Open Reduction of Hip Fracture.....        | 1               | 0.0                 | 5.3  | ----- | 0.0     | 11.1 | ----- | 0.0      | 14.9 | ----- |
| Prostatectomy.....                         | 4               | 0.0                 | 1.4  | ----- | 0.0     | 3.3  | ----- | 0.0      | 5.5  | ----- |
| Cholecystectomy.....                       | 5               | 20.0                | 3.3  | ----- | 20.0    | 7.4  | ----- | 20.0     | 10.9 | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 2.5  | ----- | 0.0     | 5.1  | ----- | 0.0      | 7.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# KNOXVILLE AREA COMMUNITY HOSPITAL

Medicare Provider Number: 160114

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.6 years  
Proportion female..... 60.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 67.8 %  
Transferred from skilled nursing facility..... 0.5 %  
Admitted for elective procedure..... 4.0 %  
Admitted for emergency..... 81.6 %

### COMORBIDITIES:

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 34.7 %  
Chronic liver disease..... 0.2 %  
Chronic renal disease..... 4.4 %  
Chronic pulmonary disease..... 17.2 %  
Cerebrovascular degeneration..... 9.1 %  
Diabetes mellitus..... 6.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 86.4%  
State ..... 10.3%  
Outside State ..... 3.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 59  
Occupancy Rate ..... 59.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 47.3 %  
Case Mix Index (CMI) ..... 1.0035

### STAFFING:

Total Number of Physicians..... 7  
Percent of Physicians Board  
Certified Specialists..... 28.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 38  
Licensed Practical Nurses..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# **KOSSUTH COUNTY HOSPITAL**

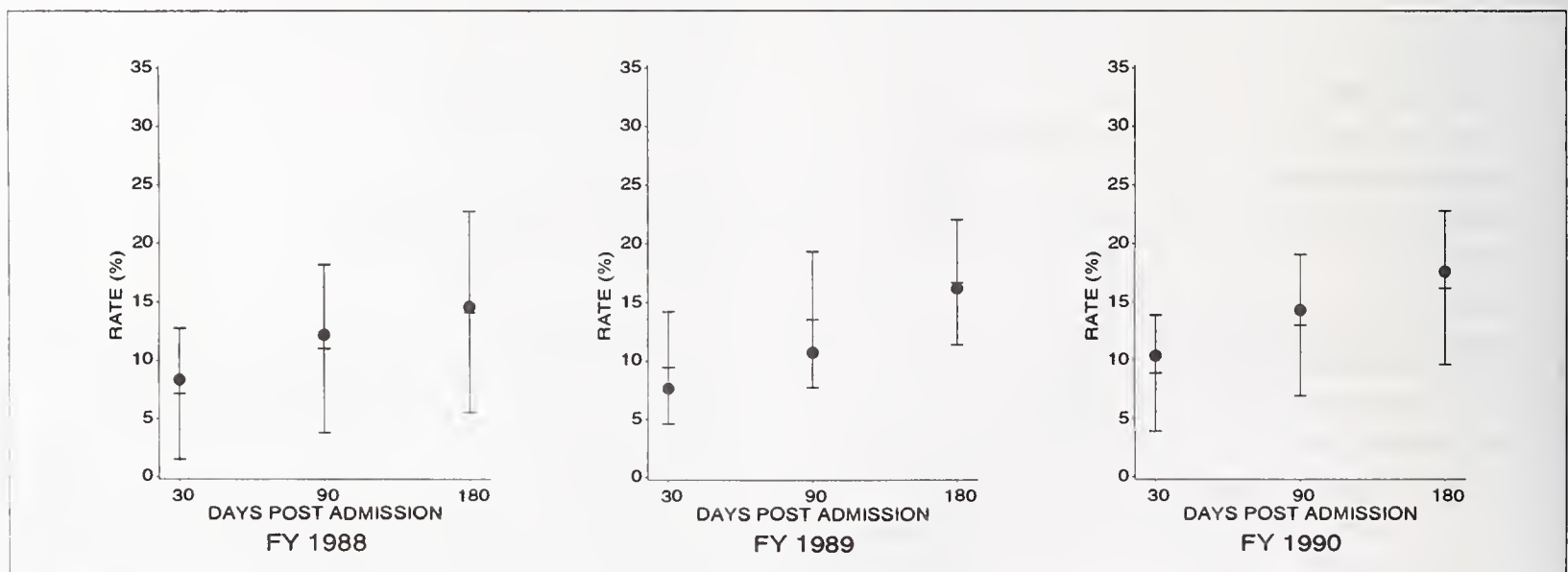
HWY 169 SOUTH  
ALGONA, IA 50511  
Medicare Provider Number: 160143

## **FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 182                | 10.4                | 8.9  | 2.5   | 14.3    | 13.0 | 3.0   | 17.6     | 16.2 | 3.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7                  | 71.4                | 33.2 | ----- | 71.4    | 36.9 | ----- | 71.4     | 40.1 | ----- |
| Congestive Heart Failure.....              | 15                 | 6.7                 | 12.0 | ----- | 6.7     | 18.9 | ----- | 13.3     | 24.6 | ----- |
| Pneumonia/Influenza.....                   | 12                 | 25.0                | 14.0 | ----- | 41.7    | 19.1 | ----- | 41.7     | 22.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4                  | 0.0                 | 7.1  | ----- | 0.0     | 12.9 | ----- | 0.0      | 17.7 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.0  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.7  | ----- |
| Stroke.....                                | 8                  | 12.5                | 19.5 | ----- | 12.5    | 23.9 | ----- | 12.5     | 27.1 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 3                  | 33.3                | 26.1 | ----- | 33.3    | 38.2 | ----- | 33.3     | 43.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 0.0                 | 1.1  | ----- | 33.3    | 1.7  | ----- | 33.3     | 2.2  | ----- |
| Hysterectomy.....                          | 6                  | 0.0                 | 0.5  | ----- | 0.0     | 1.1  | ----- | 0.0      | 1.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## **OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



# KOSSUTH COUNTY HOSPITAL

Medicare Provider Number: 160143

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.2 years  
 Proportion female..... 61.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.5 %  
 Transferred from skilled nursing facility..... 0.5 %  
 Admitted for elective procedure..... 14.8 %  
 Admitted for emergency..... 0.5 %

### COMORBIDITIES:

Cancer..... 6.0 %  
 Chronic cardiovascular disease..... 36.3 %  
 Chronic liver disease..... 1.1 %  
 Chronic renal disease..... 2.2 %  
 Chronic pulmonary disease..... 13.7 %  
 Cerebrovascular degeneration..... 2.2 %  
 Diabetes mellitus..... 7.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 89.8%  
 State ..... 9.8%  
 Outside State ..... 0.4%  
 Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.9 Days  
 State ..... 7.6 Days  
 National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 29  
 Occupancy Rate ..... 44.0 %  
 Ownership/Control..... Local Government  
 Medicare Discharges ..... 42.1 %  
 Case Mix Index (CMI) ..... 1.1017

### STAFFING:

Total Number of Physicians..... 27  
 Percent of Physicians Board  
 Certified Specialists..... 85.2 %  
 Medical Residents/Interns ..... 0  
 Registered Nurses..... 25  
 Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
 Cardiac Intensive Care ..... No  
 Comprehensive Geriatric ..... No  
 Hospice Care ..... Yes  
 Medical/Surgical Intensive Care..... Yes  
 Organ/Tissue Transplant ..... No  
 Other Intensive Care ..... No  
 Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
 Rehabilitation..... No  
 Psychiatric ..... No  
 Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



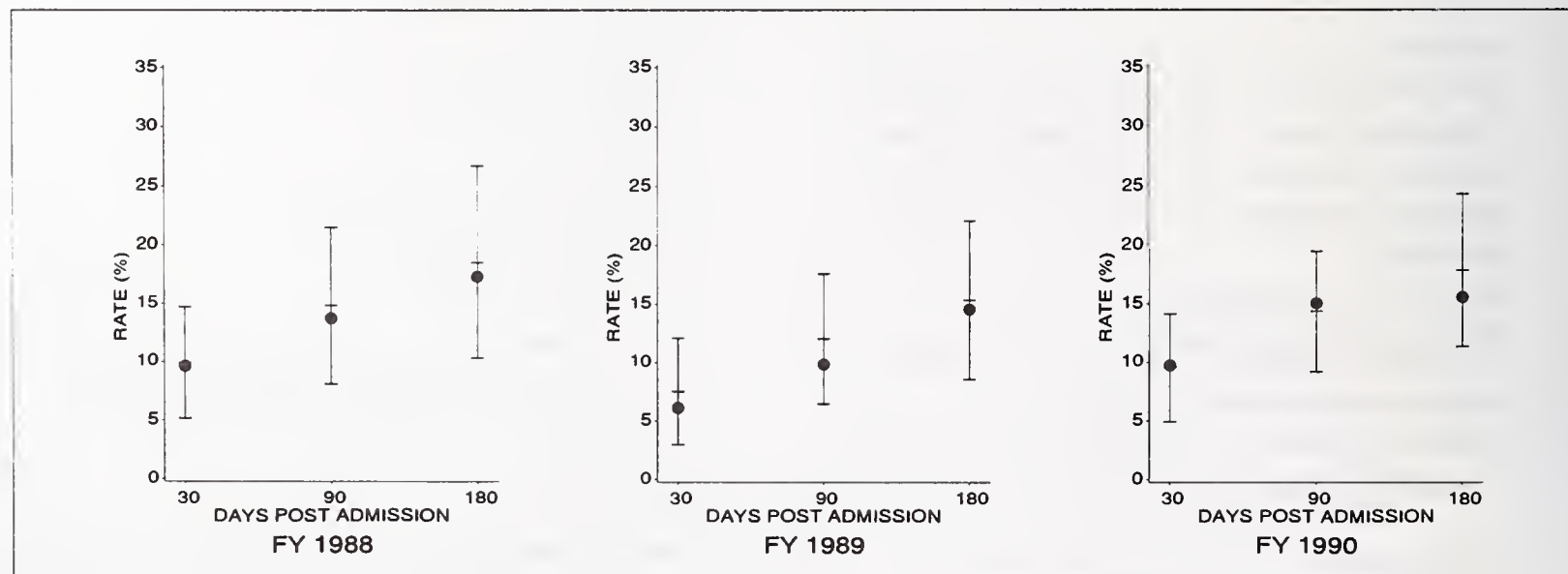
**LORING HOSPITAL**  
HIGHLAND AVE  
SAC CITY, IA 50583  
Medicare Provider Number: 160091

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 206             | 9.7                 | 9.5  | 2.3   | 15.0    | 14.3 | 2.6   | 15.5     | 17.8 | 3.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 10              | 30.0                | 29.2 | ----- | 40.0    | 32.1 | ----- | 40.0     | 34.9 | ----- |
| Congestive Heart Failure.....              | 8               | 25.0                | 15.9 | ----- | 50.0    | 24.1 | ----- | 50.0     | 29.8 | ----- |
| Pneumonia/Influenza.....                   | 23              | 0.0                 | 13.9 | ----- | 4.3     | 19.5 | ----- | 4.3      | 23.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 50.0                | 12.0 | ----- | 50.0    | 17.8 | ----- | 50.0     | 22.9 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 2.2  | ----- | 0.0     | 5.2  | ----- | 0.0      | 9.1  | ----- |
| Stroke.....                                | 2               | 0.0                 | 14.2 | ----- | 0.0     | 21.3 | ----- | 0.0      | 25.9 | ----- |
| Hip Fracture.....                          | 7               | 0.0                 | 8.0  | ----- | 0.0     | 14.1 | ----- | 0.0      | 17.7 | ----- |
| Sepsis.....                                | 5               | 40.0                | 19.0 | ----- | 40.0    | 26.2 | ----- | 40.0     | 30.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 8.1  | ----- | 0.0     | 14.7 | ----- | 0.0      | 18.5 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 8.0  | ----- | 0.0     | 14.5 | ----- | 0.0      | 18.5 | ----- |
| Prostatectomy.....                         | 5               | 0.0                 | 2.5  | ----- | 40.0    | 6.6  | ----- | 40.0     | 11.7 | ----- |
| Cholecystectomy.....                       | 5               | 0.0                 | 0.7  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.3  | ----- |
| Hysterectomy.....                          | 5               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$  SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**LORING HOSPITAL**  
Medicare Provider Number: 160091

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 78.7 years  
Proportion female..... 54.4 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 31.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 12.1 %  
Admitted for emergency..... 18.9 %

**COMORBIDITIES:**

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 37.4 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 0.0 %  
Chronic pulmonary disease..... 18.4 %  
Cerebrovascular degeneration..... 8.3 %  
Diabetes mellitus..... 5.3 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 75.9%  
State ..... 22.7%  
Outside State ..... 1.4%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 5.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 54  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 51.9 %  
Case Mix Index (CMI) ..... 1.1851

**STAFFING:**

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 16  
Licensed Practical Nurses..... 2

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# LUCAS COUNTY MEMORIAL HOSPITAL

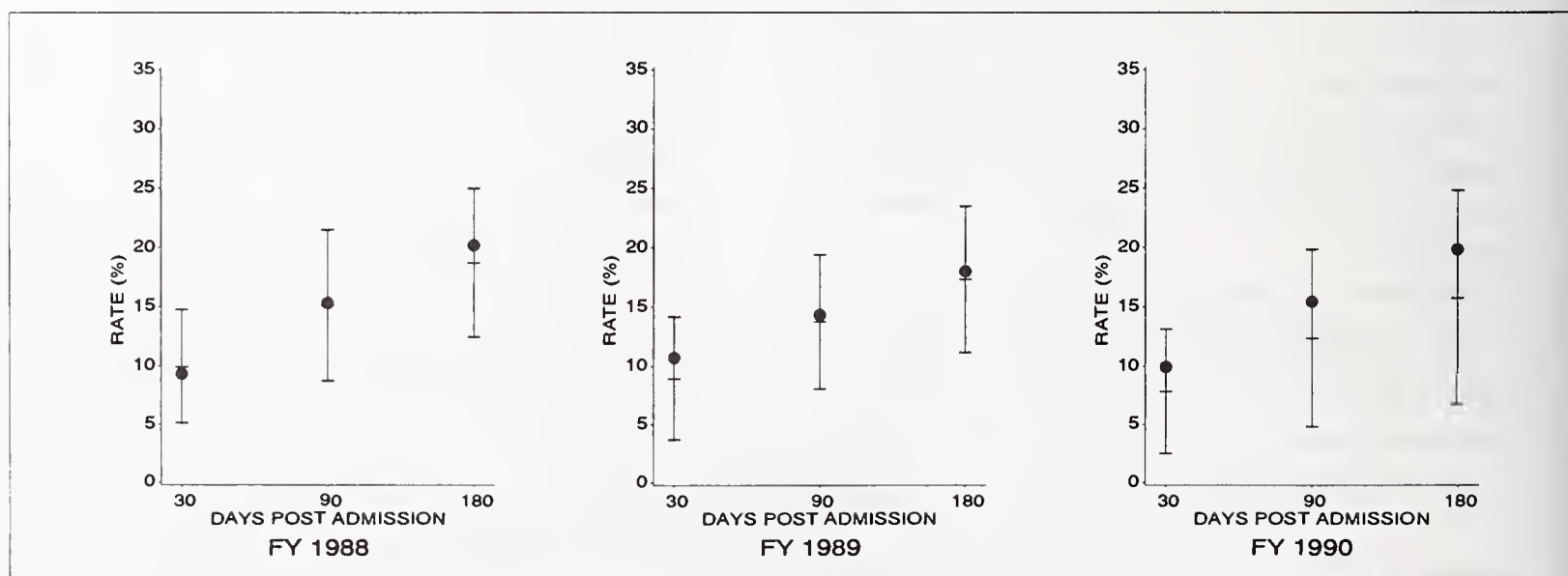
1200 NORTH 7TH  
CHARITON, IA 50049  
Medicare Provider Number: 160061

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 253             | 9.9                 | 7.8  | 2.7   | 15.4    | 12.3 | 3.8   | 19.8     | 15.7 | 4.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2               | 50.0                | 38.3 | ----- | 50.0    | 42.6 | ----- | 50.0     | 46.5 | ----- |
| Congestive Heart Failure.....              | 17              | 23.5                | 16.9 | ----- | 52.9    | 26.7 | ----- | 58.8     | 33.5 | ----- |
| Pneumonia/Influenza.....                   | 18              | 11.1                | 13.0 | ----- | 16.7    | 18.1 | ----- | 22.2     | 21.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 13              | 15.4                | 5.3  | ----- | 15.4    | 9.5  | ----- | 23.1     | 13.0 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 16.7                | 1.2  | ----- | 16.7    | 2.8  | ----- | 33.3     | 4.7  | ----- |
| Stroke.....                                | 2               | 0.0                 | 34.2 | ----- | 0.0     | 41.8 | ----- | 0.0      | 46.3 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 3               | 0.0                 | 0.7  | ----- | 0.0     | 1.7  | ----- | 0.0      | 3.2  | ----- |
| Cholecystectomy.....                       | 6               | 0.0                 | 2.1  | ----- | 0.0     | 3.8  | ----- | 0.0      | 5.3  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# LUCAS COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160061

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.5 years  
Proportion female..... 65.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 5.9 %  
Admitted for emergency..... 0.4 %

### COMORBIDITIES:

Cancer..... 5.1 %  
Chronic cardiovascular disease..... 49.4 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 19.4 %  
Cerebrovascular degeneration..... 2.0 %  
Diabetes mellitus..... 11.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 74.3%  
State ..... 23.2%  
Outside State ..... 2.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 56  
Occupancy Rate ..... 28.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 54.9 %  
Case Mix Index (CMI) ..... 1.0022

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 19  
Licensed Practical Nurses ..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MADISON COUNTY MEMORIAL HOSPITAL

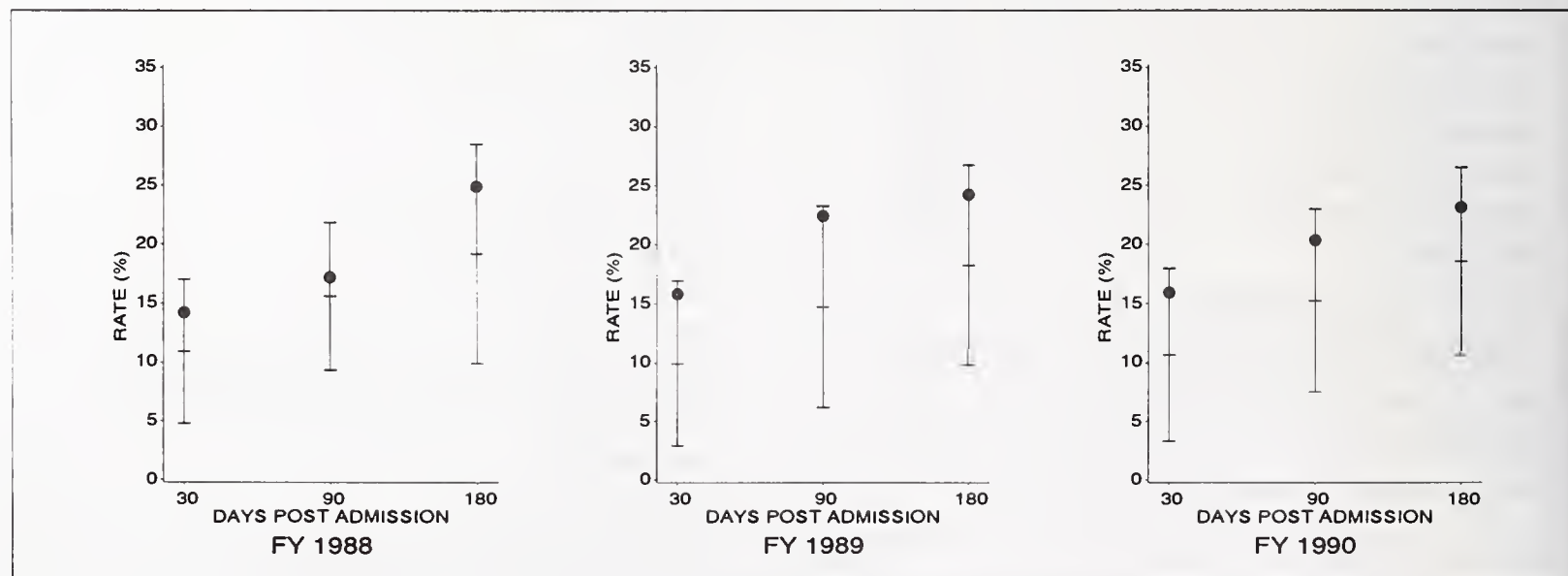
300 HUTCHINGS  
WINTERSET, IA 50273  
Medicare Provider Number: 160052

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 182                | 15.9                | 10.6 | 3.7   | 20.3    | 15.2 | 3.9   | 23.1     | 18.5 | 4.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 9                  | 33.3                | 23.0 | ----- | 33.3    | 25.4 | ----- | 33.3     | 28.0 | ----- |
| Congestive Heart Failure.....              | 8                  | 12.5                | 15.7 | ----- | 12.5    | 21.9 | ----- | 12.5     | 27.4 | ----- |
| Pneumonia/Influenza.....                   | 12                 | 41.7                | 16.6 | ----- | 41.7    | 23.2 | ----- | 41.7     | 27.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 33.3                | 4.1  | ----- | 33.3    | 7.4  | ----- | 33.3     | 10.4 | ----- |
| Transient Cerebral Ischemia.....           | 1                  | 100.0               | 2.9  | ----- | 100.0   | 6.1  | ----- | 100.0    | 8.7  | ----- |
| Stroke.....                                | 9                  | 22.2                | 18.3 | ----- | 33.3    | 24.7 | ----- | 44.4     | 28.6 | ----- |
| Hip Fracture.....                          | 13                 | 15.4                | 5.9  | ----- | 23.1    | 10.9 | ----- | 30.8     | 14.5 | ----- |
| Sepsis.....                                | 2                  | 50.0                | 13.5 | ----- | 50.0    | 21.7 | ----- | 50.0     | 26.2 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 10                 | 10.0                | 4.2  | ----- | 20.0    | 8.4  | ----- | 20.0     | 12.0 | ----- |
| Open Reduction of Hip Fracture.....        | 2                  | 50.0                | 13.6 | ----- | 50.0    | 23.1 | ----- | 100.0    | 28.3 | ----- |
| Prostatectomy.....                         | 3                  | 0.0                 | 2.6  | ----- | 0.0     | 5.7  | ----- | 0.0      | 9.5  | ----- |
| Cholecystectomy.....                       | 5                  | 0.0                 | 1.3  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.5  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MADISON COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160052

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.4 years  
Proportion female..... 58.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 97.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 97.3 %

### COMORBIDITIES:

Cancer..... 3.8 %  
Chronic cardiovascular disease..... 35.2 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 11.0 %  
Cerebrovascular degeneration..... 6.0 %  
Diabetes mellitus..... 6.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 79.2%  
State ..... 20.1%  
Outside State ..... 0.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 31  
Occupancy Rate ..... 25.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 57.7 %  
Case Mix Index (CMI) ..... 1.0718

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses ..... 3

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MAHASKA COUNTY HOSPITAL

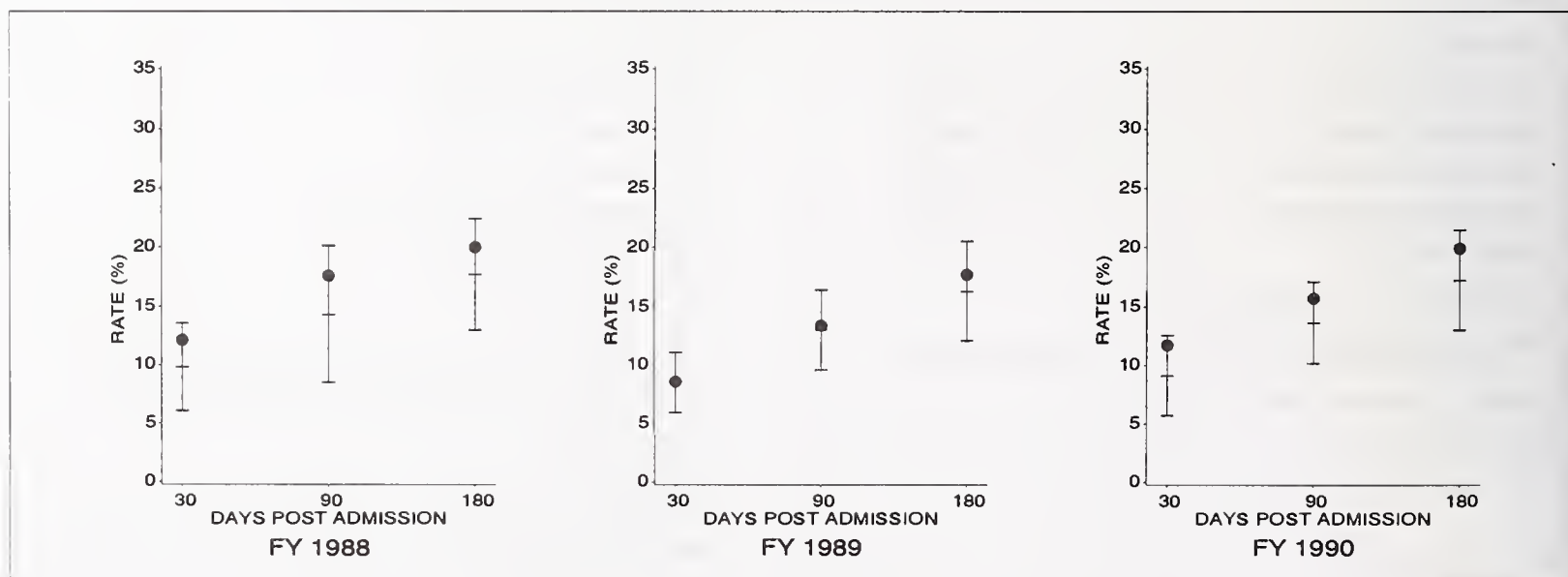
1229 C AVENUE EAST  
OSKALOOSA, IA 52577  
Medicare Provider Number: 160050

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 528             | 11.7                | 9.1  | 1.7  | 15.7    | 13.6 | 1.7  | 19.9     | 17.2 | 2.1  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 26              | 30.8                | 30.4 | ---- | 38.5    | 34.3 | ---- | 42.3     | 38.1 | ---- |
| Congestive Heart Failure.....              | 28              | 14.3                | 14.0 | ---- | 17.9    | 22.4 | ---- | 32.1     | 28.6 | ---- |
| Pneumonia/Influenza.....                   | 38              | 18.4                | 14.3 | ---- | 23.7    | 19.5 | ---- | 26.3     | 23.1 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 13              | 15.4                | 8.1  | ---- | 15.4    | 14.1 | ---- | 15.4     | 19.0 | ---- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.7  | ---- | 0.0     | 4.0  | ---- | 0.0      | 6.6  | ---- |
| Stroke.....                                | 20              | 25.0                | 25.9 | ---- | 25.0    | 32.0 | ---- | 35.0     | 35.9 | ---- |
| Hip Fracture.....                          | 18              | 22.2                | 5.8  | ---- | 22.2    | 10.4 | ---- | 22.2     | 13.8 | ---- |
| Sepsis.....                                | 5               | 60.0                | 36.3 | ---- | 60.0    | 42.5 | ---- | 60.0     | 46.9 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 13              | 23.1                | 5.3  | ---- | 23.1    | 9.6  | ---- | 23.1     | 12.7 | ---- |
| Open Reduction of Hip Fracture.....        | 5               | 20.0                | 4.5  | ---- | 20.0    | 8.7  | ---- | 20.0     | 11.8 | ---- |
| Prostatectomy.....                         | 15              | 0.0                 | 1.8  | ---- | 0.0     | 4.2  | ---- | 0.0      | 7.0  | ---- |
| Cholecystectomy.....                       | 15              | 0.0                 | 1.4  | ---- | 0.0     | 2.4  | ---- | 6.7      | 3.2  | ---- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.3  | ---- | 0.0     | 0.7  | ---- | 0.0      | 1.2  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MAHASKA COUNTY HOSPITAL

Medicare Provider Number: 160050

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 58.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 99.2 %

### COMORBIDITIES:

Cancer..... 6.1 %  
Chronic cardiovascular disease..... 43.4 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.4 %  
Chronic pulmonary disease..... 22.2 %  
Cerebrovascular degeneration..... 5.1 %  
Diabetes mellitus..... 5.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 82.2%  
State ..... 16.0%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 53  
Occupancy Rate ..... 37.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 47.1 %  
Case Mix Index (CMI) ..... 1.0905

### STAFFING:

Total Number of Physicians..... 22  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 45  
Licensed Practical Nurses..... 13

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MANNING GENERAL HOSPITAL

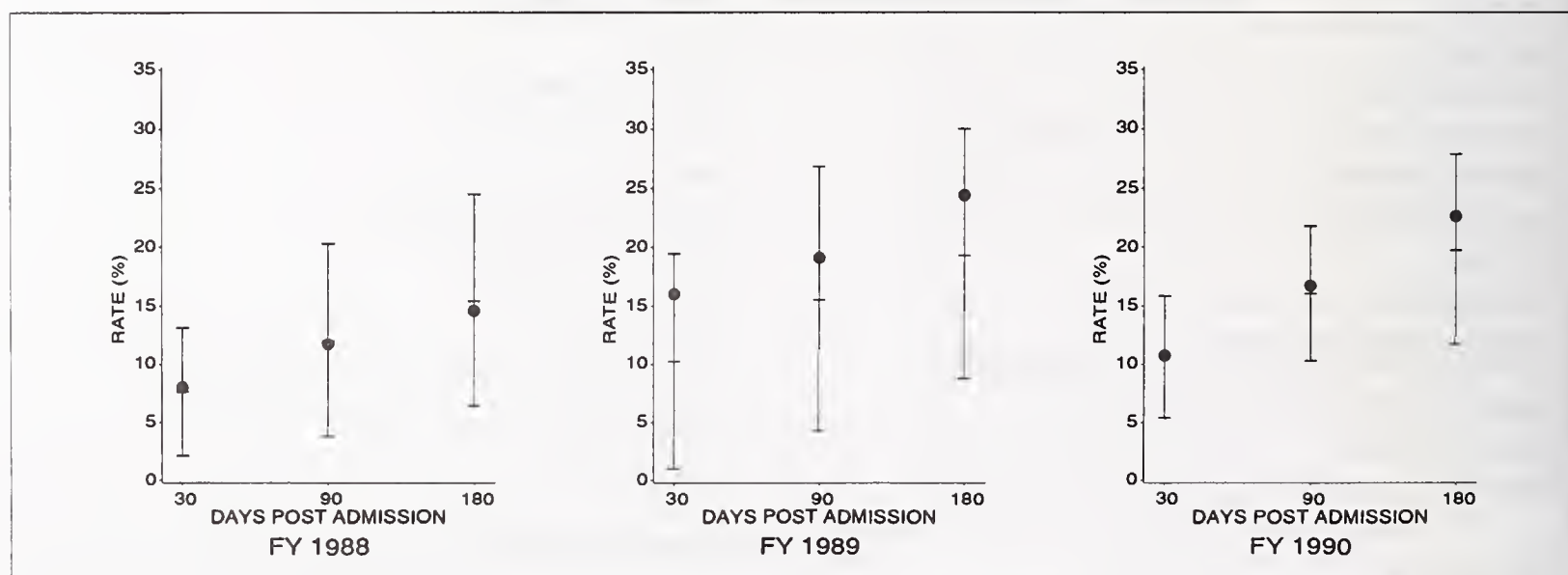
410 MAIN STREET  
MANNING, IA 51455  
Medicare Provider Number: 160111

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 168             | 10.7                | 10.6 | 2.6   | 16.7    | 16.0 | 2.9   | 22.6     | 19.7 | 4.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 6               | 33.3                | 39.9 | ----- | 50.0    | 46.5 | ----- | 50.0     | 50.1 | ----- |
| Congestive Heart Failure.....              | 9               | 22.2                | 17.3 | ----- | 33.3    | 28.4 | ----- | 44.4     | 34.8 | ----- |
| Pneumonia/Influenza.....                   | 16              | 12.5                | 11.4 | ----- | 25.0    | 15.5 | ----- | 25.0     | 18.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 0.0                 | 4.3  | ----- | 0.0     | 8.3  | ----- | 0.0      | 11.8 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 5.6  | ----- | 0.0     | 12.4 | ----- | 0.0      | 18.5 | ----- |
| Stroke.....                                | 4               | 25.0                | 15.3 | ----- | 25.0    | 19.7 | ----- | 50.0     | 22.5 | ----- |
| Hip Fracture.....                          | 3               | 0.0                 | 2.9  | ----- | 0.0     | 5.1  | ----- | 33.3     | 7.2  | ----- |
| Sepsis.....                                | 5               | 20.0                | 23.7 | ----- | 40.0    | 32.6 | ----- | 40.0     | 38.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1               | 0.0                 | 2.5  | ----- | 0.0     | 4.6  | ----- | 0.0      | 6.7  | ----- |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 2.8  | ----- | 0.0     | 5.0  | ----- | 50.0     | 7.0  | ----- |
| Prostatectomy.....                         | 3               | 0.0                 | 1.9  | ----- | 0.0     | 5.1  | ----- | 33.3     | 9.2  | ----- |
| Cholecystectomy.....                       | 2               | 0.0                 | 1.6  | ----- | 0.0     | 2.8  | ----- | 0.0      | 3.8  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MANNING GENERAL HOSPITAL

Medicare Provider Number: 160111

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.4 years  
Proportion female..... 56.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 70.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 6.0 %  
Admitted for emergency..... 29.2 %

### COMORBIDITIES:

Cancer..... 7.7 %  
Chronic cardiovascular disease..... 29.2 %  
Chronic liver disease..... 1.2 %  
Chronic renal disease..... 4.2 %  
Chronic pulmonary disease..... 28.6 %  
Cerebrovascular degeneration..... 4.2 %  
Diabetes mellitus..... 7.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 50.6%  
State..... 46.8%  
Outside State..... 2.6%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.2 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 41  
Occupancy Rate..... 56.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges.....(Not Available)  
Case Mix Index (CMI)..... 1.0625

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists..... 33.3 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 12  
Licensed Practical Nurses..... 9

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... No  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... Yes  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARENGO MEMORIAL HOSPITAL

300 WEST MAY ST  
MARENGO, IA 52301  
Medicare Provider Number: 160073

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 23                 | 17.4                | 11.3 | ----- | 17.4    | 15.8 | ----- | 30.4     | 19.5 | ----- |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2                  | 50.0                | 25.8 | ----- | 50.0    | 30.5 | ----- | 100.0    | 36.9 | ----- |
| Congestive Heart Failure.....              | 0                  |                     |      |       |         |      |       |          |      |       |
| Pneumonia/Influenza.....                   | 6                  | 0.0                 | 14.4 | ----- | 0.0     | 19.8 | ----- | 33.3     | 23.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 3                  | 33.3                | 25.6 | ----- | 33.3    | 36.4 | ----- | 33.3     | 41.6 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 0                  |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES

No Graphs are presented when the standard deviation  
was not computed for one or more of the three fiscal years,  
(1988, 1989, or 1990)

# MARENGO MEMORIAL HOSPITAL

Medicare Provider Number: 160073

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 82.6 years  
Proportion female..... 69.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 78.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 13.0 %  
Admitted for emergency..... 30.4 %

### COMORBIDITIES:

Cancer..... 0.0 %  
Chronic cardiovascular disease..... 30.4 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 4.3 %  
Chronic pulmonary disease..... 8.7 %  
Cerebrovascular degeneration..... 0.0 %  
Diabetes mellitus..... 0.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 75.0%  
State ..... 25.0%  
Outside State ..... 0.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 44  
Occupancy Rate ..... 72.0 %  
Ownership/Control..... Local Government  
Medicare Discharges .....(Not Available)  
Case Mix Index (CMI) ..... 0.9143

### STAFFING:

Total Number of Physicians..... 2  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 10  
Licensed Practical Nurses ..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MARIAN HEALTH CENTER

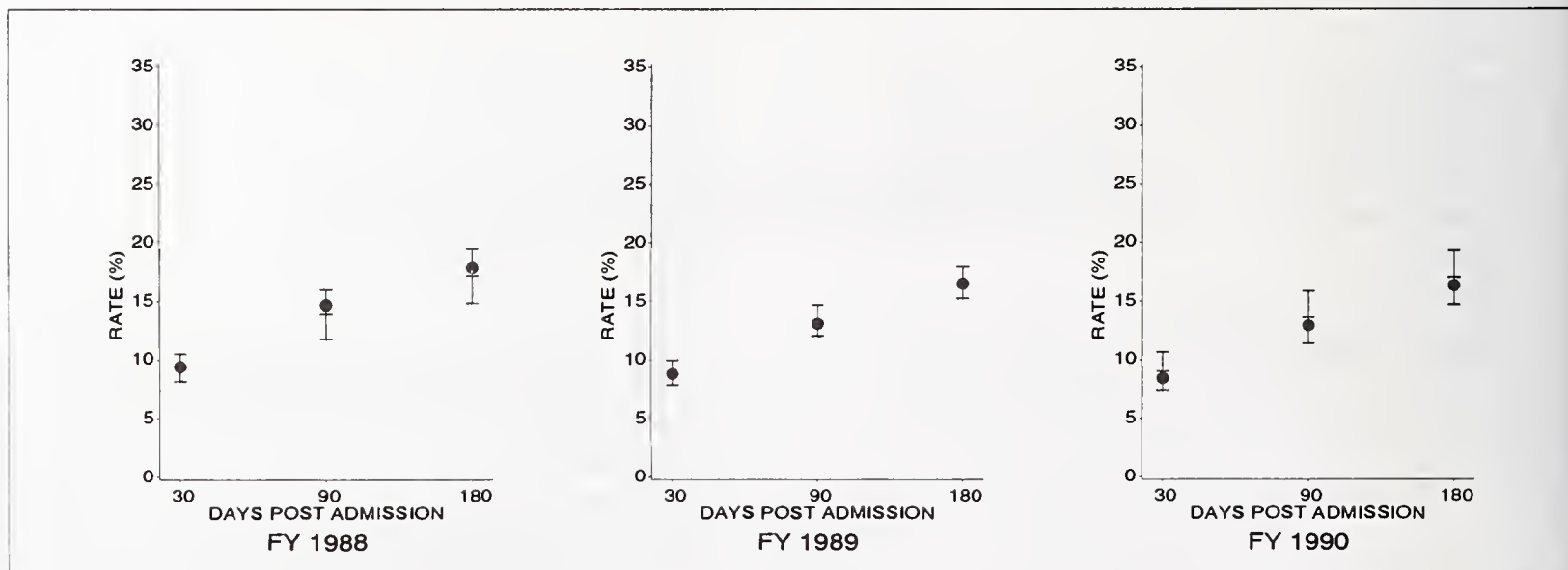
801 5TH ST  
SIOUX CITY, IA 51102  
Medicare Provider Number: 160153

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2924            | 8.4                 | 9.0  | 0.8   | 12.9    | 13.6 | 1.1   | 16.3     | 17.0 | 1.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 137             | 24.1                | 22.3 | 4.8   | 27.0    | 25.2 | 4.5   | 29.2     | 27.8 | 4.0   |
| Congestive Heart Failure.....              | 124             | 11.3                | 14.0 | 4.0   | 21.0    | 22.4 | 3.8   | 29.0     | 28.9 | 4.1   |
| Pneumonia/Influenza.....                   | 117             | 14.5                | 16.0 | 5.5   | 18.8    | 22.1 | 6.9   | 21.4     | 26.1 | 7.5   |
| Chronic Obstructive Pulmonary Disease..... | 29              | 13.8                | 8.6  | ----- | 31.0    | 16.2 | ----- | 37.9     | 21.4 | ----- |
| Transient Cerebral Ischemia.....           | 44              | 6.8                 | 1.3  | ----- | 6.8     | 3.0  | ----- | 11.4     | 5.0  | ----- |
| Stroke.....                                | 100             | 17.0                | 19.4 | 4.9   | 21.0    | 26.5 | 6.2   | 26.0     | 30.4 | 5.7   |
| Hip Fracture.....                          | 81              | 9.9                 | 7.3  | 4.0   | 14.8    | 12.5 | 4.2   | 17.3     | 16.0 | 4.2   |
| Sepsis.....                                | 52              | 17.3                | 25.1 | 10.1  | 28.8    | 33.6 | 13.7  | 34.6     | 38.3 | 13.5  |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 80              | 0.0                 | 3.1  | 3.7   | 2.5     | 3.8  | 2.6   | 2.5      | 4.6  | 3.4   |
| Coronary Artery Bypass Graft.....          | 86              | 9.3                 | 5.1  | 5.1   | 12.8    | 7.4  | 6.5   | 14.0     | 8.3  | 6.8   |
| Initial Pacemaker Insertion.....           | 25              | 0.0                 | 2.6  | ----- | 4.0     | 5.2  | ----- | 12.0     | 7.7  | ----- |
| Carotid Endarterectomy.....                | 9               | 0.0                 | 1.5  | ----- | 0.0     | 3.0  | ----- | 0.0      | 4.5  | ----- |
| Hip Replacement/Reconstruction.....        | 65              | 3.1                 | 3.2  | 2.2   | 4.6     | 5.9  | 3.1   | 6.2      | 7.8  | 4.0   |
| Open Reduction of Hip Fracture.....        | 44              | 13.6                | 7.0  | ----- | 20.5    | 12.2 | ----- | 25.0     | 15.9 | ----- |
| Prostatectomy.....                         | 96              | 0.0                 | 1.3  | 1.9   | 1.0     | 3.2  | 3.3   | 6.3      | 5.3  | 2.8   |
| Cholecystectomy.....                       | 43              | 2.3                 | 1.9  | ----- | 2.3     | 3.5  | ----- | 2.3      | 4.8  | ----- |
| Hysterectomy.....                          | 17              | 0.0                 | 0.4  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MARIAN HEALTH CENTER

Medicare Provider Number: 160153

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 73.6 years  
Proportion female..... 49.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 50.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 43.4 %  
Admitted for emergency..... 50.8 %

### COMORBIDITIES:

Cancer..... 9.0 %  
Chronic cardiovascular disease..... 36.8 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 5.4 %  
Chronic pulmonary disease..... 13.5 %  
Cerebrovascular degeneration..... 3.0 %  
Diabetes mellitus..... 9.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 46.5%  
State ..... 31.4%  
Outside State ..... 22.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 453  
Occupancy Rate ..... 64.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 43.9 %  
Case Mix Index (CMI) ..... 1.5143

### STAFFING:

Total Number of Physicians..... 132  
Percent of Physicians Board  
Certified Specialists ..... 84.1 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 469  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARSHALLTOWN MEDICAL & SURGICAL CENTER

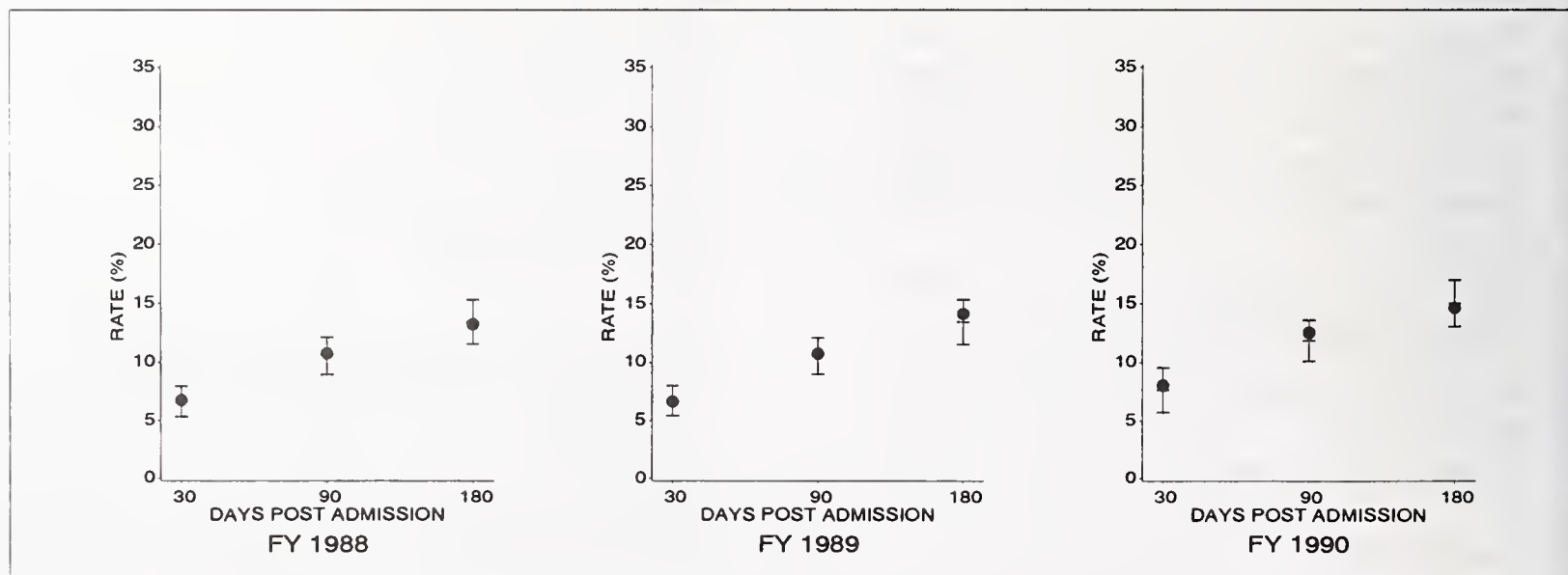
THREE SOUTH FOURTH AVENUE  
MARSHALLTOWN, IA 50158  
Medicare Provider Number: 160001

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1597            | 8.0                 | 7.6  | 1.0   | 12.5    | 11.8 | 0.9   | 14.6     | 15.0 | 1.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 39              | 41.0                | 26.9 | ----- | 46.2    | 30.0 | ----- | 46.2     | 32.8 | ----- |
| Congestive Heart Failure.....              | 94              | 17.0                | 16.0 | 3.9   | 25.5    | 25.5 | 4.6   | 31.9     | 32.1 | 5.0   |
| Pneumonia/Influenza.....                   | 54              | 11.1                | 12.8 | 4.8   | 16.7    | 18.1 | 5.4   | 18.5     | 21.9 | 6.3   |
| Chronic Obstructive Pulmonary Disease..... | 21              | 0.0                 | 5.2  | ----- | 4.8     | 10.4 | ----- | 14.3     | 15.1 | ----- |
| Transient Cerebral Ischemia.....           | 23              | 4.3                 | 1.8  | ----- | 8.7     | 4.2  | ----- | 8.7      | 6.8  | ----- |
| Stroke.....                                | 52              | 11.5                | 14.7 | 5.7   | 17.3    | 20.1 | 7.1   | 19.2     | 23.7 | 7.1   |
| Hip Fracture.....                          | 72              | 5.6                 | 6.5  | 3.0   | 12.5    | 11.5 | 4.4   | 15.3     | 15.0 | 6.7   |
| Sepsis.....                                | 21              | 23.8                | 21.2 | ----- | 33.3    | 29.5 | ----- | 33.3     | 34.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 12              | 0.0                 | 1.8  | ----- | 0.0     | 3.4  | ----- | 0.0      | 5.0  | ----- |
| Hip Replacement/Reconstruction.....        | 36              | 5.6                 | 5.1  | ----- | 8.3     | 9.1  | ----- | 11.1     | 11.9 | ----- |
| Open Reduction of Hip Fracture.....        | 42              | 0.0                 | 4.9  | ----- | 9.5     | 9.0  | ----- | 11.9     | 12.1 | ----- |
| Prostatectomy.....                         | 27              | 0.0                 | 1.1  | ----- | 0.0     | 2.8  | ----- | 0.0      | 4.9  | ----- |
| Cholecystectomy.....                       | 35              | 0.0                 | 3.6  | ----- | 0.0     | 6.2  | ----- | 2.9      | 8.1  | ----- |
| Hysterectomy.....                          | 13              | 0.0                 | 0.2  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MARSHALLTOWN MEDICAL & SURGICAL CENTER

Medicare Provider Number: 160001

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.8 years  
Proportion female..... 58.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 72.5 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 22.1 %  
Admitted for emergency..... 16.3 %

### COMORBIDITIES:

Cancer..... 6.8 %  
Chronic cardiovascular disease..... 29.8 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.9 %  
Chronic pulmonary disease..... 18.1 %  
Cerebrovascular degeneration..... 4.5 %  
Diabetes mellitus..... 5.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 61.2%  
State ..... 37.7%  
Outside State ..... 1.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 176  
Occupancy Rate ..... 51.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 47.5 %  
Case Mix Index (CMI) ..... 1.1783

### STAFFING:

Total Number of Physicians..... 56  
Percent of Physicians Board  
Certified Specialists ..... 87.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 101  
Licensed Practical Nurses ..... 26

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MARY GREELEY MEDICAL CENTER

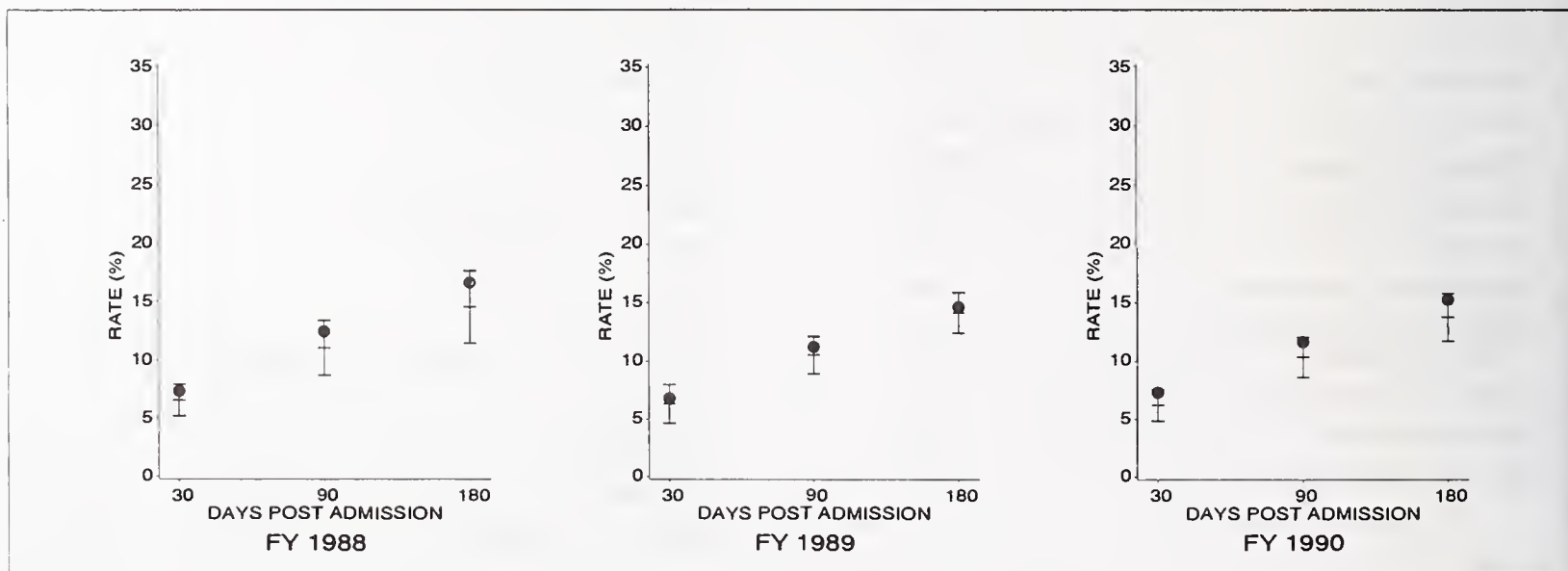
117 11TH STREET  
AMES, IA 50010  
Medicare Provider Number: 160030

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1993               | 7.3                 | 6.2  | 0.7   | 11.6    | 10.3 | 0.8   | 15.2     | 13.7 | 1.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 33                 | 27.3                | 17.3 | ----- | 36.4    | 21.1 | ----- | 36.4     | 24.6 | ----- |
| Congestive Heart Failure.....              | 78                 | 12.8                | 15.0 | 4.4   | 20.5    | 24.4 | 5.9   | 30.8     | 31.3 | 5.9   |
| Pneumonia/Influenza.....                   | 81                 | 14.8                | 11.5 | 4.0   | 16.0    | 16.5 | 4.1   | 18.5     | 20.1 | 4.5   |
| Chronic Obstructive Pulmonary Disease..... | 24                 | 0.0                 | 7.0  | ----- | 0.0     | 12.8 | ----- | 4.2      | 17.7 | ----- |
| Transient Cerebral Ischemia.....           | 16                 | 0.0                 | 0.7  | ----- | 0.0     | 1.7  | ----- | 0.0      | 3.1  | ----- |
| Stroke.....                                | 85                 | 21.2                | 12.6 | 5.1   | 24.7    | 18.4 | 4.9   | 28.2     | 22.5 | 5.1   |
| Hip Fracture.....                          | 85                 | 2.4                 | 3.9  | 2.3   | 7.1     | 7.4  | 2.9   | 12.9     | 10.3 | 3.6   |
| Sepsis.....                                | 31                 | 12.9                | 28.1 | ----- | 19.4    | 39.0 | ----- | 25.8     | 44.7 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 3                  | 0.0                 | 7.0  | ----- | 0.0     | 13.5 | ----- | 33.3     | 19.4 | ----- |
| Carotid Endarterectomy.....                | 6                  | 0.0                 | 0.9  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.3  | ----- |
| Hip Replacement/Reconstruction.....        | 95                 | 3.2                 | 1.9  | 1.7   | 4.2     | 3.6  | 2.4   | 6.3      | 5.2  | 2.9   |
| Open Reduction of Hip Fracture.....        | 32                 | 0.0                 | 3.6  | ----- | 6.3     | 6.8  | ----- | 9.4      | 9.6  | ----- |
| Prostatectomy.....                         | 127                | 0.8                 | 0.8  | 0.8   | 1.6     | 1.9  | 1.3   | 2.4      | 3.2  | 1.8   |
| Cholecystectomy.....                       | 42                 | 0.0                 | 1.7  | ----- | 4.8     | 3.2  | ----- | 4.8      | 4.6  | ----- |
| Hysterectomy.....                          | 18                 | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MARY GREELEY MEDICAL CENTER

Medicare Provider Number: 160030

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.6 years  
Proportion female..... 53.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 99.1 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 11.6 %  
Chronic cardiovascular disease..... 34.7 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 12.8 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 4.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 50.7%  
State ..... 48.2%  
Outside State ..... 1.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 220  
Occupancy Rate ..... 66.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 40.2 %  
Case Mix Index (CMI) ..... 1.2363

### STAFFING:

Total Number of Physicians..... 105  
Percent of Physicians Board  
Certified Specialists..... 89.5 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 209  
Licensed Practical Nurses ..... 14

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MERCY HEALTH CENTER

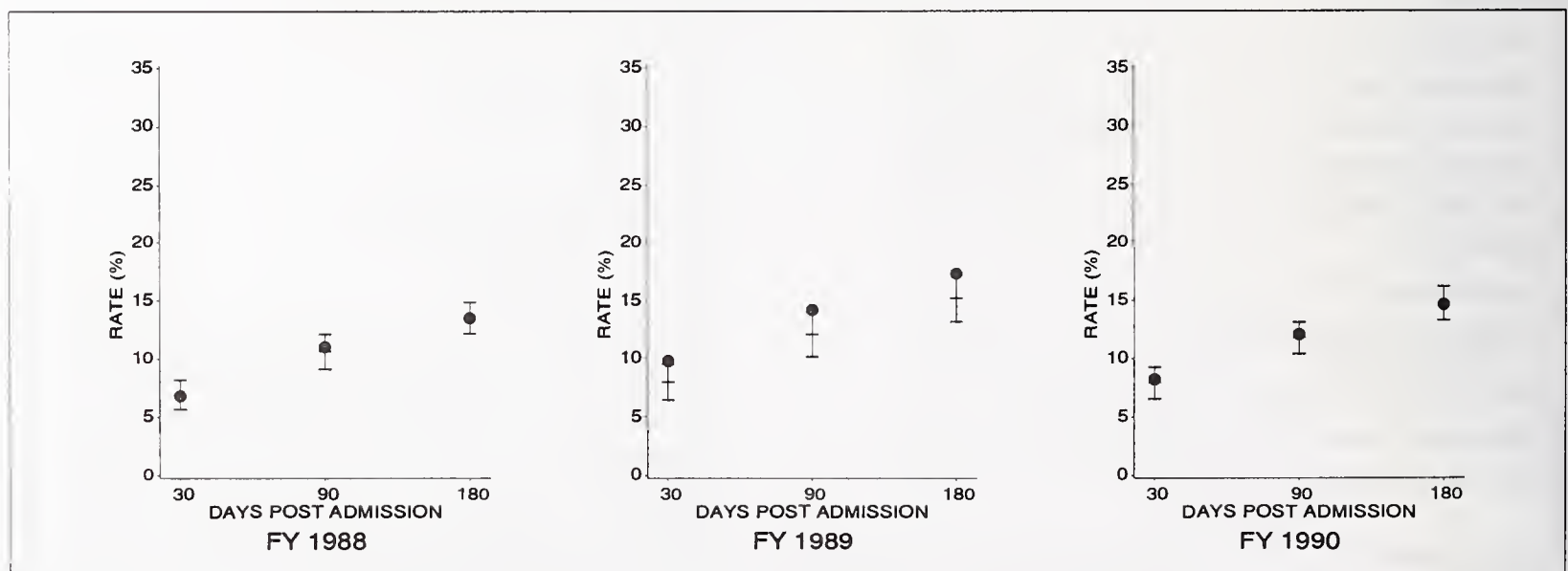
MERCY DRIVE  
DUBUQUE, IA 52001  
Medicare Provider Number: 160069

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2648            | 8.2                 | 7.9  | 0.7   | 12.0    | 11.7 | 0.7   | 14.6     | 14.7 | 0.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 75              | 26.7                | 28.3 | 7.5   | 30.7    | 30.9 | 8.0   | 33.3     | 33.7 | 6.9   |
| Congestive Heart Failure.....              | 158             | 18.4                | 14.6 | 5.8   | 25.9    | 23.2 | 5.9   | 31.0     | 29.3 | 5.0   |
| Pneumonia/Influenza.....                   | 112             | 17.0                | 15.3 | 5.1   | 28.6    | 21.3 | 6.1   | 31.3     | 25.3 | 6.1   |
| Chronic Obstructive Pulmonary Disease..... | 19              | 26.3                | 11.6 | ----- | 31.6    | 17.7 | ----- | 31.6     | 23.1 | ----- |
| Transient Cerebral Ischemia.....           | 56              | 0.0                 | 1.8  | 2.1   | 0.0     | 3.9  | 3.4   | 0.0      | 6.2  | 4.5   |
| Stroke.....                                | 117             | 18.8                | 21.6 | 5.3   | 24.8    | 27.4 | 5.1   | 29.9     | 31.1 | 5.0   |
| Hip Fracture.....                          | 84              | 11.9                | 7.0  | 5.3   | 14.3    | 12.2 | 4.5   | 16.7     | 15.9 | 4.4   |
| Sepsis.....                                | 19              | 21.1                | 23.1 | ----- | 26.3    | 28.6 | ----- | 36.8     | 32.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 43              | 2.3                 | 2.1  | ----- | 2.3     | 2.7  | ----- | 2.3      | 3.4  | ----- |
| Coronary Artery Bypass Graft.....          | 31              | 9.7                 | 3.0  | ----- | 9.7     | 4.2  | ----- | 9.7      | 4.8  | ----- |
| Initial Pacemaker Insertion.....           | 22              | 4.5                 | 3.6  | ----- | 4.5     | 7.1  | ----- | 4.5      | 10.5 | ----- |
| Carotid Endarterectomy.....                | 33              | 0.0                 | 1.4  | ----- | 0.0     | 2.5  | ----- | 0.0      | 3.7  | ----- |
| Hip Replacement/Reconstruction.....        | 74              | 6.8                 | 3.1  | 3.6   | 6.8     | 5.8  | 2.9   | 6.8      | 8.0  | 3.6   |
| Open Reduction of Hip Fracture.....        | 50              | 10.0                | 7.1  | ----- | 12.0    | 12.7 | ----- | 14.0     | 16.5 | ----- |
| Prostatectomy.....                         | 92              | 0.0                 | 0.8  | 1.1   | 0.0     | 2.1  | 2.0   | 1.1      | 3.5  | 2.4   |
| Cholecystectomy.....                       | 68              | 1.5                 | 2.5  | 2.0   | 2.9     | 4.7  | 2.8   | 4.4      | 6.4  | 3.5   |
| Hysterectomy.....                          | 15              | 0.0                 | 0.5  | ----- | 0.0     | 1.2  | ----- | 0.0      | 2.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MERCY HEALTH CENTER

Medicare Provider Number: 160069

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.8 years  
Proportion female..... 52.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 40.6 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 40.7 %  
Admitted for emergency..... 58.6 %

### COMORBIDITIES:

Cancer..... 6.6 %  
Chronic cardiovascular disease..... 35.7 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 1.5 %  
Chronic pulmonary disease..... 13.9 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 5.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 61.4%  
State ..... 13.6%  
Outside State ..... 25.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 400  
Occupancy Rate ..... 61.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 38.6 %  
Case Mix Index (CMI) ..... 1.3452

### STAFFING:

Total Number of Physicians..... 179  
Percent of Physicians Board  
Certified Specialists..... 69.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 324  
Licensed Practical Nurses ..... 15

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

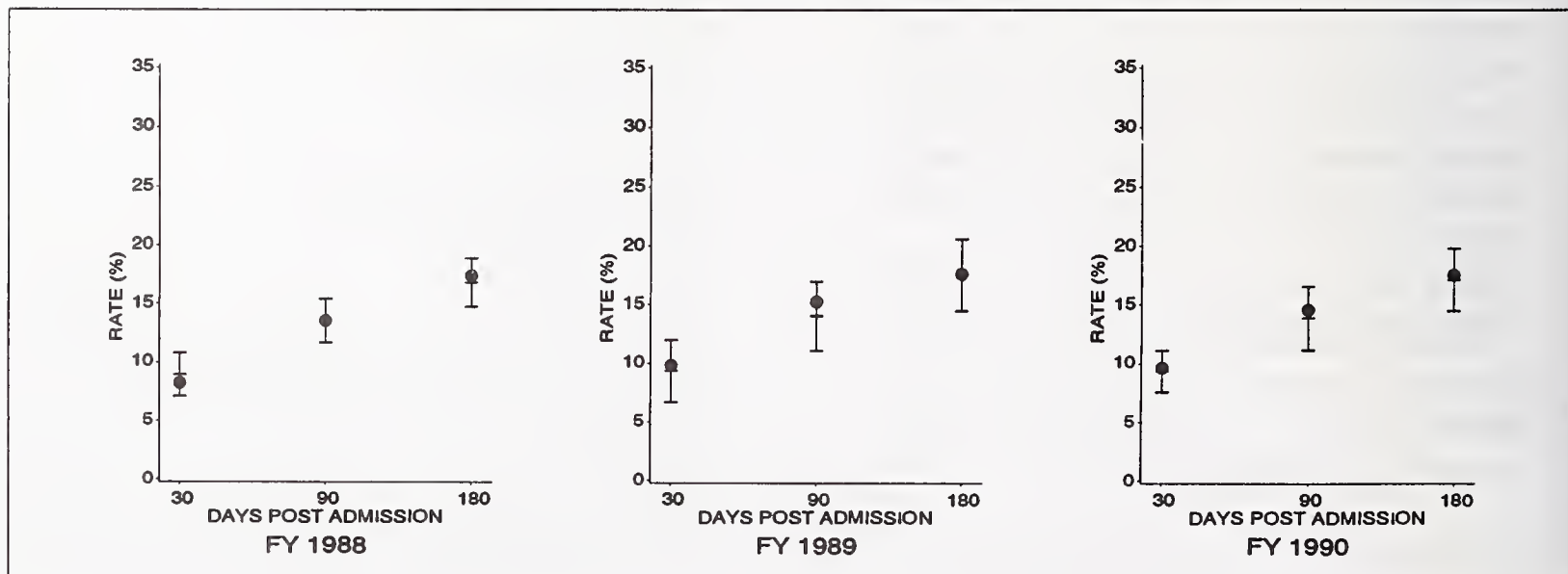
**MERCY HOSPITAL**  
800 MERCY DR, BOX 1-C  
COUNCIL BLUFFS, IA 51502  
Medicare Provider Number: 160028

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1209            | 9.6                 | 9.3  | 0.9   | 14.5    | 13.8 | 1.4   | 17.5     | 17.1 | 1.3   |
| <b>CONDITIONS:</b>                         |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 36              | 50.0                | 32.5 | ----- | 52.8    | 35.3 | ----- | 58.3     | 38.1 | ----- |
| Congestive Heart Failure.....              | 70              | 11.4                | 14.5 | 6.0   | 24.3    | 22.4 | 6.6   | 28.6     | 28.4 | 6.1   |
| Pneumonia/Influenza.....                   | 89              | 18.0                | 18.0 | 5.0   | 21.3    | 24.3 | 6.9   | 28.1     | 28.2 | 6.8   |
| Chronic Obstructive Pulmonary Disease..... | 47              | 14.9                | 9.7  | ----- | 19.1    | 16.3 | ----- | 27.7     | 21.0 | ----- |
| Transient Cerebral Ischemia.....           | 19              | 0.0                 | 1.4  | ----- | 0.0     | 3.4  | ----- | 0.0      | 5.9  | ----- |
| Stroke.....                                | 32              | 6.3                 | 16.1 | ----- | 6.3     | 20.8 | ----- | 6.3      | 23.8 | ----- |
| Hip Fracture.....                          | 53              | 5.7                 | 6.5  | 3.5   | 13.2    | 11.5 | 5.6   | 15.1     | 14.9 | 5.1   |
| Sepsis.....                                | 15              | 20.0                | 23.4 | ----- | 26.7    | 32.8 | ----- | 26.7     | 37.5 | ----- |
| <b>PROCEDURES:</b>                         |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 13              | 7.7                 | 7.6  | ----- | 15.4    | 12.9 | ----- | 15.4     | 16.3 | ----- |
| Carotid Endarterectomy.....                | 6               | 16.7                | 1.7  | ----- | 16.7    | 3.2  | ----- | 16.7     | 4.7  | ----- |
| Hip Replacement/Reconstruction.....        | 20              | 5.0                 | 4.9  | ----- | 15.0    | 9.1  | ----- | 20.0     | 12.2 | ----- |
| Open Reduction of Hip Fracture.....        | 32              | 6.3                 | 6.0  | ----- | 15.6    | 11.0 | ----- | 15.6     | 14.5 | ----- |
| Prostatectomy.....                         | 29              | 3.4                 | 1.0  | ----- | 3.4     | 2.5  | ----- | 6.9      | 4.3  | ----- |
| Cholecystectomy.....                       | 30              | 0.0                 | 1.7  | ----- | 3.3     | 3.1  | ----- | 6.7      | 4.2  | ----- |
| Hysterectomy.....                          | 13              | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**





**MERCY HOSPITAL**  
Medicare Provider Number: 160028

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 75.3 years  
Proportion female..... 58.6 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 31.2 %  
Transferred from skilled nursing facility..... 0.2 %  
Admitted for elective procedure..... 35.0 %  
Admitted for emergency..... 63.6 %

**COMORBIDITIES:**

Cancer..... 5.8 %  
Chronic cardiovascular disease..... 40.9 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 18.6 %  
Cerebrovascular degeneration..... 5.0 %  
Diabetes mellitus..... 8.9 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 80.3%  
State ..... 15.1%  
Outside State ..... 4.6%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 8.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 284  
Occupancy Rate ..... 49.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 34.3 %  
Case Mix Index (CMI) ..... 1.2445

**STAFFING:**

Total Number of Physicians..... 76  
Percent of Physicians Board  
Certified Specialists..... 75.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 141  
Licensed Practical Nurses..... 29

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

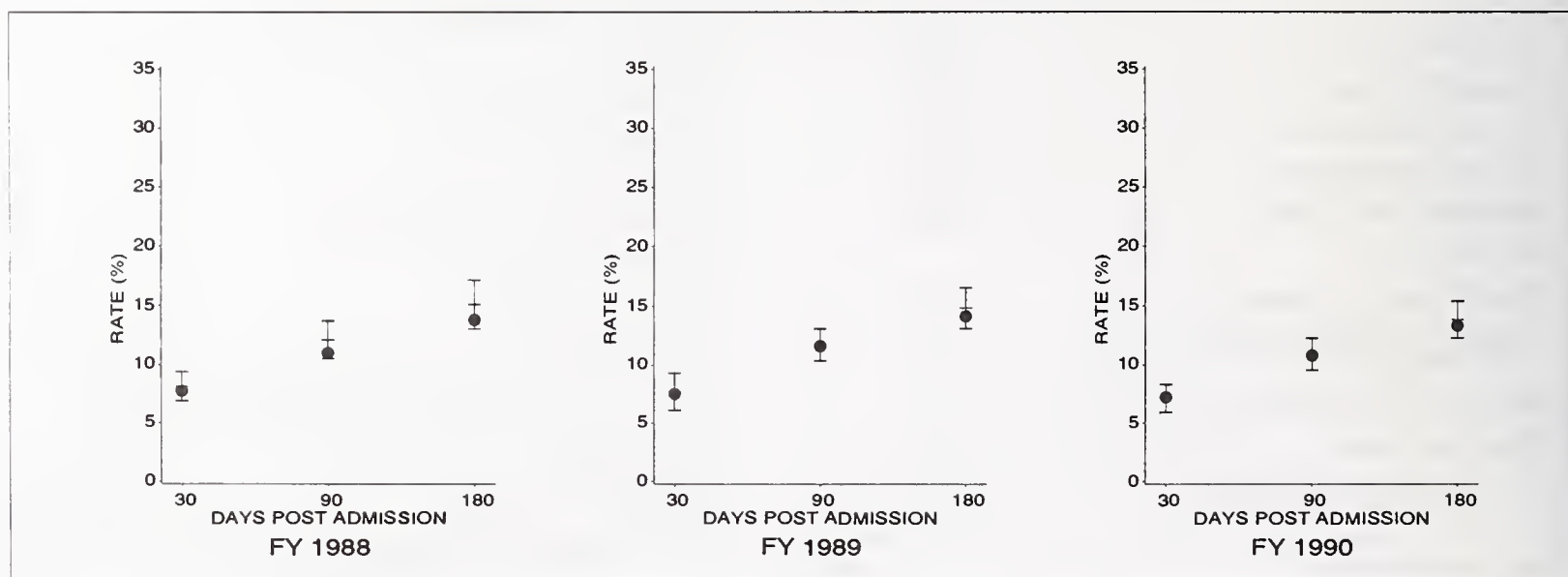
**MERCY HOSPITAL**  
500 MARKET STREET  
IOWA CITY, IA 52240  
Medicare Provider Number: 160029

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2299               | 7.2                 | 7.1  | 0.6   | 10.8    | 10.9 | 0.7   | 13.3     | 13.8 | 0.8   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 76                 | 17.1                | 25.4 | 8.4   | 22.4    | 28.6 | 9.3   | 23.7     | 31.5 | 8.4   |
| Congestive Heart Failure.....              | 108                | 13.9                | 13.4 | 3.5   | 19.4    | 21.4 | 4.3   | 23.1     | 27.8 | 5.5   |
| Pneumonia/Influenza.....                   | 86                 | 19.8                | 12.8 | 5.7   | 25.6    | 17.8 | 5.8   | 27.9     | 21.4 | 5.5   |
| Chronic Obstructive Pulmonary Disease..... | 9                  | 33.3                | 5.8  | ----- | 33.3    | 10.3 | ----- | 33.3     | 14.0 | ----- |
| Transient Cerebral Ischemia.....           | 41                 | 0.0                 | 1.4  | ----- | 0.0     | 3.2  | ----- | 0.0      | 5.5  | ----- |
| Stroke.....                                | 106                | 11.3                | 16.9 | 5.4   | 14.2    | 23.0 | 6.5   | 17.9     | 26.8 | 6.2   |
| Hip Fracture.....                          | 99                 | 12.1                | 6.4  | 4.7   | 16.2    | 11.6 | 5.9   | 20.2     | 15.1 | 5.4   |
| Sepsis.....                                | 36                 | 33.3                | 26.1 | ----- | 41.7    | 32.8 | ----- | 44.4     | 37.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 29                 | 3.4                 | 3.3  | ----- | 10.3    | 4.4  | ----- | 10.3     | 5.3  | ----- |
| Coronary Artery Bypass Graft.....          | 38                 | 2.6                 | 6.0  | ----- | 2.6     | 8.3  | ----- | 2.6      | 9.3  | ----- |
| Initial Pacemaker Insertion.....           | 12                 | 8.3                 | 2.8  | ----- | 8.3     | 5.8  | ----- | 8.3      | 8.7  | ----- |
| Carotid Endarterectomy.....                | 9                  | 0.0                 | 2.2  | ----- | 0.0     | 4.0  | ----- | 0.0      | 5.8  | ----- |
| Hip Replacement/Reconstruction.....        | 88                 | 5.7                 | 2.5  | 2.7   | 9.1     | 4.8  | 4.1   | 11.4     | 6.5  | 4.3   |
| Open Reduction of Hip Fracture.....        | 33                 | 6.1                 | 5.6  | ----- | 9.1     | 10.3 | ----- | 15.2     | 13.7 | ----- |
| Prostatectomy.....                         | 46                 | 0.0                 | 1.3  | ----- | 2.2     | 2.9  | ----- | 4.3      | 4.9  | ----- |
| Cholecystectomy.....                       | 46                 | 2.2                 | 1.7  | ----- | 2.2     | 3.2  | ----- | 4.3      | 4.3  | ----- |
| Hysterectomy.....                          | 41                 | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**MERCY HOSPITAL**  
Medicare Provider Number: 160029

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 75.7 years  
Proportion female..... 56.8 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 99.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 29.8 %  
Admitted for emergency..... 49.5 %

**COMORBIDITIES:**

Cancer..... 8.0 %  
Chronic cardiovascular disease..... 32.5 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 1.3 %  
Chronic pulmonary disease..... 10.9 %  
Cerebrovascular degeneration..... 2.9 %  
Diabetes mellitus..... 7.0 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 39.0%  
State ..... 58.4%  
Outside State ..... 2.6%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 8.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 240  
Occupancy Rate ..... 60.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 35.6 %  
Case Mix Index (CMI) ..... 1.3207

**STAFFING:**

Total Number of Physicians..... 129  
Percent of Physicians Board  
Certified Specialists ..... 95.3 %  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... Yes  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



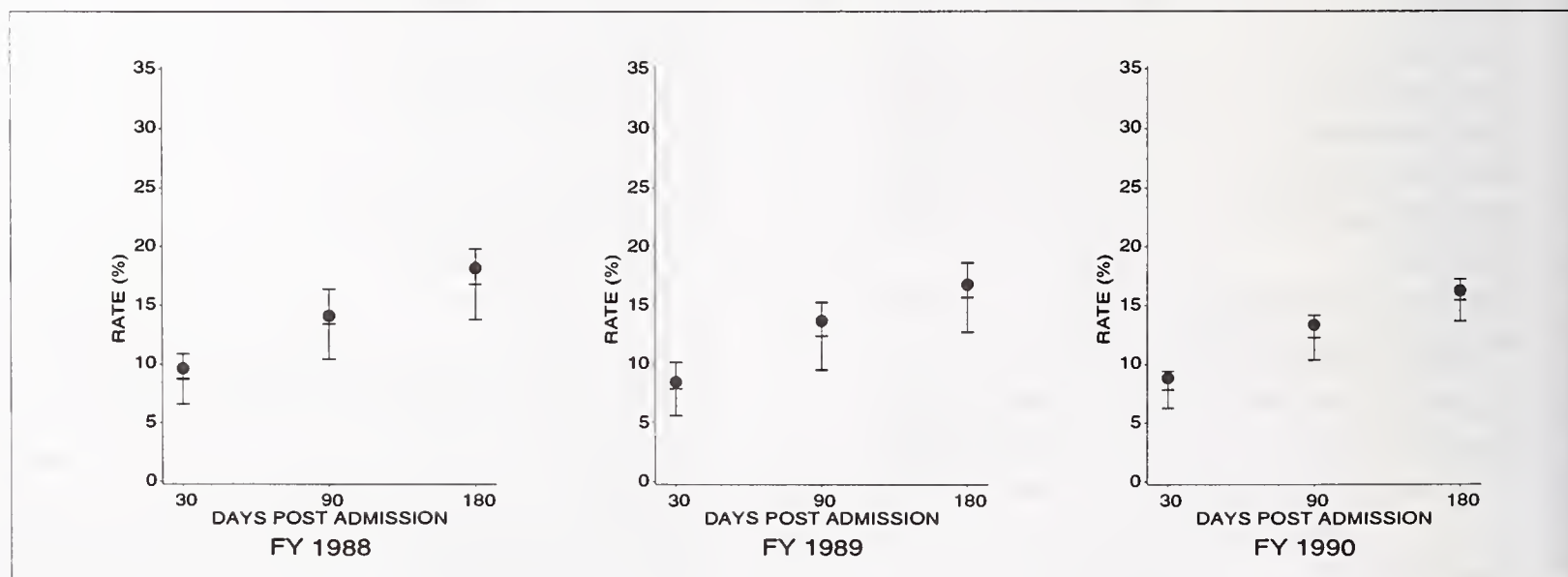
**MERCY HOSPITAL**  
 WEST CENTRAL PARK AT MARQUETTE  
 DAVENPORT, IA 52804  
 Medicare Provider Number: 160033

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1975            | 8.8                 | 7.8  | 0.8   | 13.3    | 12.2 | 1.0   | 16.2     | 15.4 | 0.9   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 49              | 32.7                | 22.1 | ----- | 34.7    | 25.1 | ----- | 34.7     | 27.5 | ----- |
| Congestive Heart Failure.....              | 86              | 15.1                | 14.0 | 5.0   | 24.4    | 22.1 | 5.8   | 32.6     | 28.2 | 6.7   |
| Pneumonia/Influenza.....                   | 85              | 9.4                 | 13.3 | 4.2   | 18.8    | 18.6 | 5.1   | 24.7     | 22.3 | 4.7   |
| Chronic Obstructive Pulmonary Disease..... | 70              | 11.4                | 7.5  | 6.0   | 21.4    | 13.1 | 8.2   | 24.3     | 17.5 | 8.9   |
| Transient Cerebral Ischemia.....           | 39              | 0.0                 | 1.6  | ----- | 0.0     | 3.5  | ----- | 0.0      | 5.9  | ----- |
| Stroke.....                                | 88              | 15.9                | 18.4 | 4.9   | 20.5    | 24.2 | 5.9   | 22.7     | 27.8 | 5.6   |
| Hip Fracture.....                          | 68              | 2.9                 | 5.0  | 3.4   | 4.4     | 8.7  | 5.8   | 7.4      | 11.4 | 7.4   |
| Sepsis.....                                | 25              | 20.0                | 18.4 | ----- | 32.0    | 26.1 | ----- | 40.0     | 30.6 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 5               | 20.0                | 7.6  | ----- | 20.0    | 8.7  | ----- | 20.0     | 9.6  | ----- |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 13              | 0.0                 | 3.2  | ----- | 7.7     | 6.5  | ----- | 15.4     | 9.7  | ----- |
| Carotid Endarterectomy.....                | 1               | 0.0                 | 1.7  | ----- | 0.0     | 3.3  | ----- | 0.0      | 5.4  | ----- |
| Hip Replacement/Reconstruction.....        | 77              | 0.0                 | 2.6  | 2.9   | 2.6     | 4.8  | 3.3   | 5.2      | 6.7  | 4.7   |
| Open Reduction of Hip Fracture.....        | 39              | 2.6                 | 4.7  | ----- | 5.1     | 8.3  | ----- | 7.7      | 10.9 | ----- |
| Prostatectomy.....                         | 73              | 1.4                 | 1.1  | 1.6   | 2.7     | 2.5  | 2.7   | 6.8      | 4.2  | 3.7   |
| Cholecystectomy.....                       | 46              | 0.0                 | 2.5  | ----- | 4.3     | 4.9  | ----- | 4.3      | 6.7  | ----- |
| Hysterectomy.....                          | 6               | 0.0                 | 0.7  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (\*) AND PREDICTED RANGE ( $\pm 2$  SD)  
 FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**MERCY HOSPITAL**  
Medicare Provider Number: 160033

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 74.4 years  
Proportion female..... 56.4 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 3.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 45.7 %  
Admitted for emergency..... 28.8 %

**COMORBIDITIES:**

Cancer..... 7.9 %  
Chronic cardiovascular disease..... 33.3 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 1.3 %  
Chronic pulmonary disease..... 16.2 %  
Cerebrovascular degeneration..... 5.5 %  
Diabetes mellitus..... 5.4 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 75.9%  
State ..... 13.8%  
Outside State ..... 10.3%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 8.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 265  
Occupancy Rate ..... 83.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 36.8 %  
Case Mix Index (CMI) ..... 1.3181

**STAFFING:**

Total Number of Physicians..... 299  
Percent of Physicians Board  
Certified Specialists..... 72.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 347  
Licensed Practical Nurses ..... 10

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... Yes

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... Yes  
Rehabilitation..... Yes  
Psychiatric..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

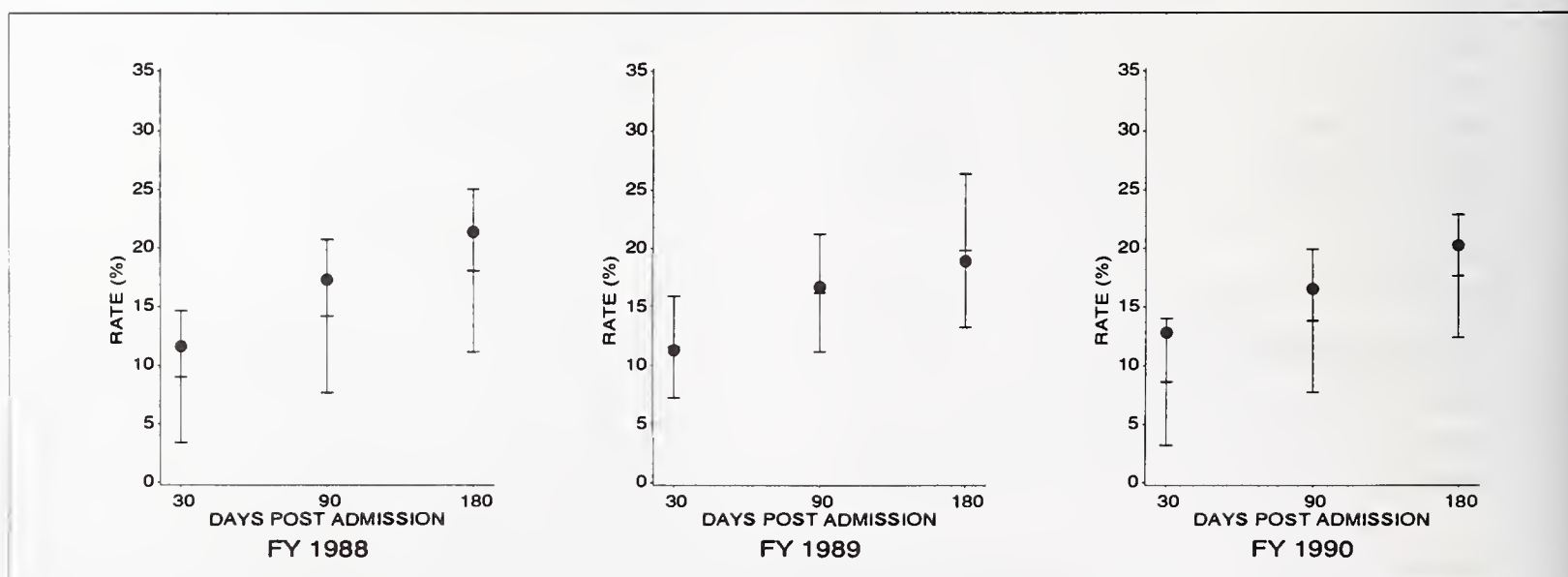
**MERCY HOSPITAL**  
 ROSARY DRIVE, BOX 368  
 CORNING, IA 50841  
 Medicare Provider Number: 160041

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 242                | 12.8                | 8.6  | 2.7   | 16.5    | 13.8 | 3.0   | 20.2     | 17.6 | 2.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5                  | 20.0                | 25.2 | ----- | 20.0    | 28.2 | ----- | 20.0     | 30.8 | ----- |
| Congestive Heart Failure.....              | 13                 | 23.1                | 14.1 | ----- | 30.8    | 22.3 | ----- | 30.8     | 29.1 | ----- |
| Pneumonia/Influenza.....                   | 19                 | 26.3                | 18.5 | ----- | 26.3    | 25.7 | ----- | 31.6     | 30.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2                  | 50.0                | 2.6  | ----- | 50.0    | 5.1  | ----- | 50.0     | 7.3  | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.4  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |
| Stroke.....                                | 7                  | 42.9                | 19.9 | ----- | 57.1    | 25.9 | ----- | 57.1     | 29.6 | ----- |
| Hip Fracture.....                          | 14                 | 7.1                 | 10.5 | ----- | 21.4    | 17.7 | ----- | 28.6     | 22.4 | ----- |
| Sepsis.....                                | 3                  | 33.3                | 31.3 | ----- | 33.3    | 49.1 | ----- | 33.3     | 57.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 8                  | 12.5                | 11.9 | ----- | 12.5    | 19.9 | ----- | 25.0     | 25.3 | ----- |
| Open Reduction of Hip Fracture.....        | 3                  | 0.0                 | 8.8  | ----- | 33.3    | 15.3 | ----- | 33.3     | 19.1 | ----- |
| Prostatectomy.....                         | 15                 | 0.0                 | 1.0  | ----- | 0.0     | 2.4  | ----- | 0.0      | 4.2  | ----- |
| Cholecystectomy.....                       | 14                 | 7.1                 | 2.7  | ----- | 7.1     | 5.7  | ----- | 14.3     | 8.1  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 1.2  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
 FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**





**MERCY HOSPITAL**  
Medicare Provider Number: 160041

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 79.0 years  
Proportion female..... 60.3 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 72.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.8 %  
Admitted for emergency..... 88.4 %

**COMORBIDITIES:**

Cancer..... 6.2 %  
Chronic cardiovascular disease..... 30.6 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.9 %  
Chronic pulmonary disease..... 9.1 %  
Cerebrovascular degeneration..... 8.3 %  
Diabetes mellitus..... 3.7 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 41.7%  
State ..... 54.3%  
Outside State ..... 4.0%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 22  
Occupancy Rate ..... 36.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 52.1 %  
Case Mix Index (CMI) ..... 1.0991

**STAFFING:**

Total Number of Physicians..... 17  
Percent of Physicians Board  
Certified Specialists..... 88.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses..... 5

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MERCY HOSPITAL MEDICAL CENTER

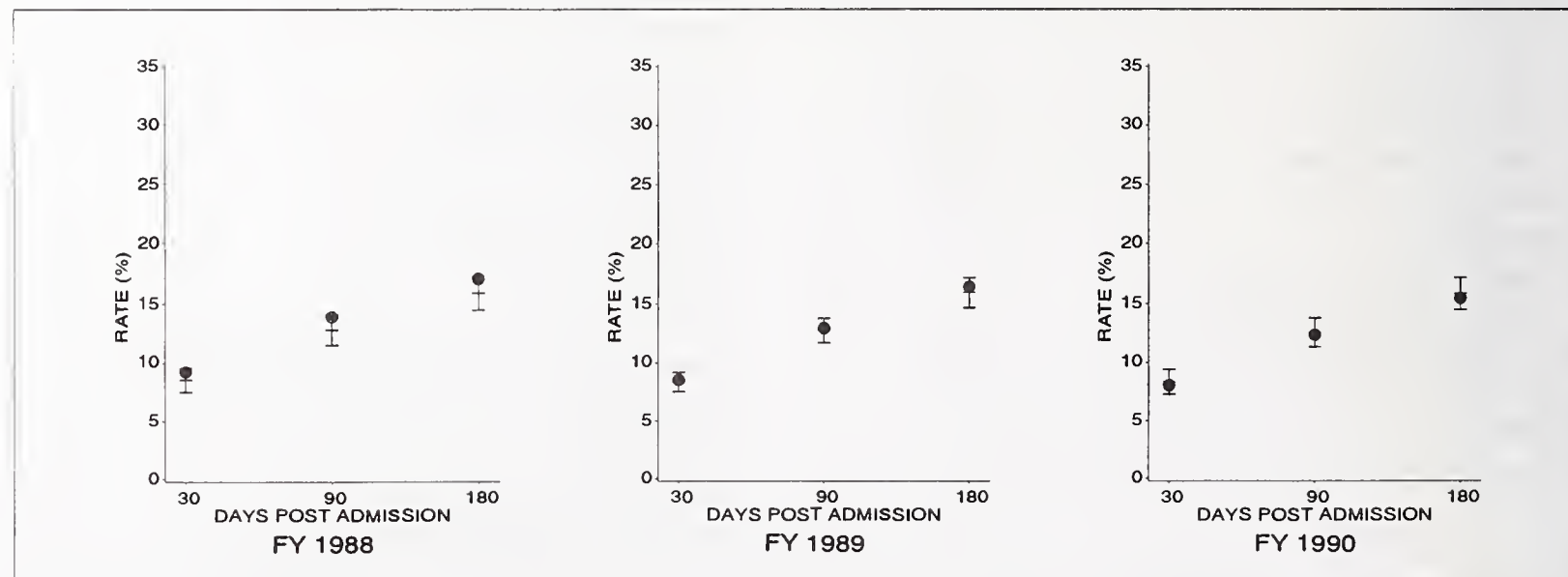
SIXTH AND UNIVERSITY  
DES MOINES, IA 50314  
Medicare Provider Number: 160083

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 5708               | 8.0                 | 8.3  | 0.5   | 12.3    | 12.5 | 0.6   | 15.4     | 15.8 | 0.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 264                | 22.7                | 23.8 | 3.0   | 26.9    | 26.3 | 3.7   | 28.8     | 28.8 | 3.2   |
| Congestive Heart Failure.....              | 255                | 17.6                | 15.2 | 3.0   | 26.3    | 24.1 | 4.1   | 33.7     | 30.4 | 4.2   |
| Pneumonia/Influenza.....                   | 193                | 17.1                | 16.4 | 3.6   | 24.9    | 22.6 | 3.2   | 32.6     | 26.6 | 4.6   |
| Chronic Obstructive Pulmonary Disease..... | 95                 | 9.5                 | 7.5  | 3.2   | 14.7    | 13.3 | 4.3   | 17.9     | 17.9 | 5.6   |
| Transient Cerebral Ischemia.....           | 52                 | 0.0                 | 1.9  | 2.8   | 0.0     | 4.3  | 5.6   | 3.8      | 6.9  | 5.6   |
| Stroke.....                                | 180                | 17.8                | 18.5 | 3.7   | 21.1    | 24.5 | 5.0   | 23.3     | 28.1 | 5.9   |
| Hip Fracture.....                          | 146                | 7.5                 | 6.8  | 2.4   | 11.6    | 11.9 | 2.9   | 15.1     | 15.6 | 3.1   |
| Sepsis.....                                | 28                 | 35.7                | 30.4 | ----- | 39.3    | 37.8 | ----- | 42.9     | 42.7 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 330                | 3.6                 | 3.4  | 1.0   | 4.5     | 4.3  | 1.1   | 5.5      | 5.3  | 1.5   |
| Coronary Artery Bypass Graft.....          | 159                | 3.8                 | 5.5  | 2.8   | 6.3     | 7.4  | 2.9   | 8.8      | 8.3  | 3.1   |
| Initial Pacemaker Insertion.....           | 66                 | 1.5                 | 3.2  | 3.0   | 3.0     | 6.2  | 4.2   | 6.1      | 8.9  | 4.3   |
| Carotid Endarterectomy.....                | 13                 | 0.0                 | 2.6  | ----- | 0.0     | 4.7  | ----- | 7.7      | 6.4  | ----- |
| Hip Replacement/Reconstruction.....        | 101                | 3.0                 | 3.1  | 2.1   | 5.0     | 5.7  | 2.4   | 6.9      | 7.9  | 3.0   |
| Open Reduction of Hip Fracture.....        | 34                 | 8.8                 | 6.3  | ----- | 11.8    | 11.3 | ----- | 14.7     | 15.2 | ----- |
| Prostatectomy.....                         | 130                | 0.0                 | 1.3  | 1.3   | 2.3     | 2.9  | 1.7   | 2.3      | 4.9  | 2.7   |
| Cholecystectomy.....                       | 118                | 0.0                 | 2.4  | 2.3   | 3.4     | 4.3  | 2.7   | 4.2      | 5.6  | 2.5   |
| Hysterectomy.....                          | 33                 | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MERCY HOSPITAL MEDICAL CENTER

Medicare Provider Number: 160083

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.2 years  
Proportion female..... 54.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 49.3 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 18.0 %  
Admitted for emergency..... 49.2 %

### COMORBIDITIES:

Cancer..... 6.8 %  
Chronic cardiovascular disease..... 44.9 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 3.0 %  
Chronic pulmonary disease..... 14.9 %  
Cerebrovascular degeneration..... 3.6 %  
Diabetes mellitus..... 7.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 58.7%  
State ..... 38.6%  
Outside State ..... 2.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 555  
Occupancy Rate ..... 84.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 33.8 %  
Case Mix Index (CMI) ..... 1.4612

### STAFFING:

Total Number of Physicians..... 478  
Percent of Physicians Board  
Certified Specialists ..... 84.3 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 531  
Licensed Practical Nurses ..... 109

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MERCY HOSPITAL OF FRANCISCAN SISTERS

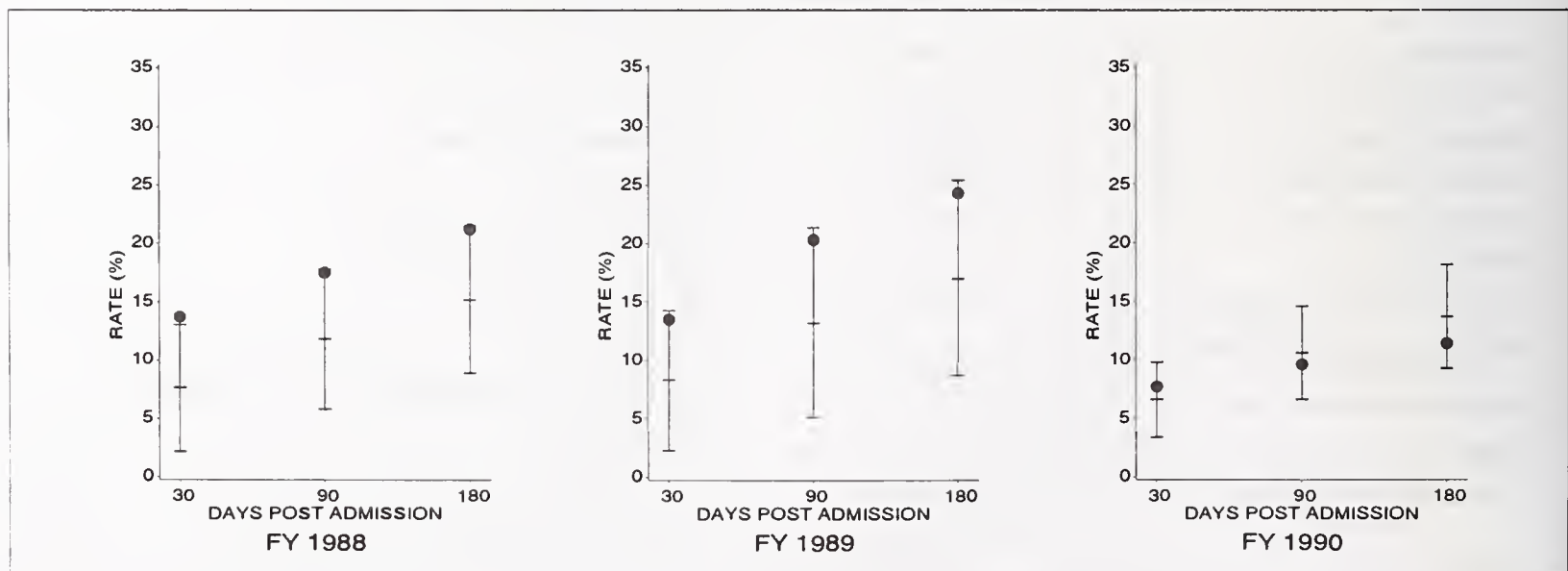
201-8TH AVE SE  
OELWEIN, IA 50662  
Medicare Provider Number: 160135

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 272             | 7.7                 | 6.6  | 1.6   | 9.6     | 10.6 | 2.0   | 11.4     | 13.7 | 2.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 20.0                | 29.0 | ----- | 20.0    | 33.7 | ----- | 20.0     | 37.0 | ----- |
| Congestive Heart Failure.....              | 11              | 36.4                | 13.1 | ----- | 36.4    | 21.1 | ----- | 36.4     | 26.7 | ----- |
| Pneumonia/Influenza.....                   | 23              | 8.7                 | 11.4 | ----- | 13.0    | 16.1 | ----- | 13.0     | 19.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9               | 11.1                | 7.4  | ----- | 22.2    | 13.4 | ----- | 22.2     | 18.6 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 1.2  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.5  | ----- |
| Stroke.....                                | 8               | 12.5                | 14.0 | ----- | 12.5    | 19.2 | ----- | 12.5     | 23.2 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 100.0               | 48.9 | ----- | 100.0   | 58.3 | ----- | 100.0    | 61.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 5               | 0.0                 | 1.0  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.7  | ----- |
| Cholecystectomy.....                       | 8               | 0.0                 | 2.2  | ----- | 0.0     | 4.5  | ----- | 0.0      | 6.5  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 0.4  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MERCY HOSPITAL OF FRANCISCAN SISTERS

Medicare Provider Number: 160135

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.4 years  
Proportion female..... 58.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 2.6 %

### COMORBIDITIES:

Cancer..... 4.4 %  
Chronic cardiovascular disease..... 27.9 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 1.8 %  
Chronic pulmonary disease..... 13.6 %  
Cerebrovascular degeneration..... 4.0 %  
Diabetes mellitus..... 5.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 76.5%  
State ..... 21.9%  
Outside State ..... 1.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 49  
Occupancy Rate ..... 22.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 54.6 %  
Case Mix Index (CMI) ..... 0.9594

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 15  
Licensed Practical Nurses ..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MERCY MEDICAL CENTER

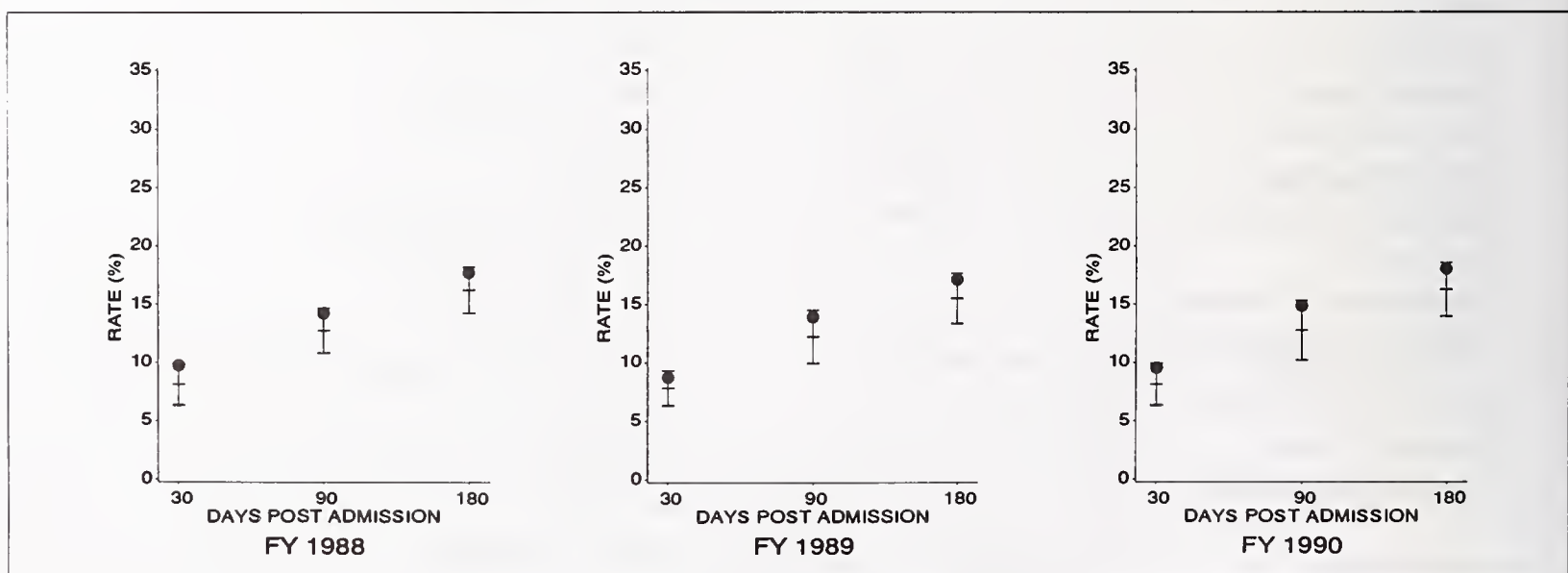
701 10TH ST SE  
CEDAR RAPIDS, IA 52403  
Medicare Provider Number: 160079

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2705               | 9.5                 | 8.1  | 0.9   | 14.8    | 12.7 | 1.3   | 18.0     | 16.2 | 1.2   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 52                 | 26.9                | 24.3 | 6.2   | 34.6    | 27.4 | 7.1   | 36.5     | 30.0 | 7.5   |
| Congestive Heart Failure.....              | 106                | 11.3                | 14.4 | 4.3   | 22.6    | 22.7 | 4.2   | 27.4     | 28.7 | 4.5   |
| Pneumonia/Influenza.....                   | 136                | 15.4                | 16.5 | 4.0   | 23.5    | 22.7 | 4.1   | 26.5     | 26.6 | 4.4   |
| Chronic Obstructive Pulmonary Disease..... | 48                 | 20.8                | 7.8  | ----- | 29.2    | 13.4 | ----- | 31.3     | 17.8 | ----- |
| Transient Cerebral Ischemia.....           | 32                 | 0.0                 | 1.0  | ----- | 6.3     | 2.4  | ----- | 6.3      | 4.1  | ----- |
| Stroke.....                                | 96                 | 19.8                | 17.6 | 6.8   | 27.1    | 23.6 | 7.1   | 28.1     | 27.5 | 6.1   |
| Hip Fracture.....                          | 77                 | 9.1                 | 6.2  | 4.6   | 15.6    | 11.1 | 5.6   | 16.9     | 14.7 | 6.7   |
| Sepsis.....                                | 26                 | 34.6                | 27.6 | ----- | 50.0    | 35.2 | ----- | 50.0     | 40.1 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 1                  | 0.0                 | 11.2 | ----- | 0.0     | 12.2 | ----- | 0.0      | 13.0 | ----- |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 12                 | 0.0                 | 2.3  | ----- | 0.0     | 4.5  | ----- | 0.0      | 6.5  | ----- |
| Carotid Endarterectomy.....                | 18                 | 0.0                 | 1.3  | ----- | 5.6     | 2.6  | ----- | 5.6      | 4.0  | ----- |
| Hip Replacement/Reconstruction.....        | 79                 | 5.1                 | 2.5  | 2.9   | 6.3     | 4.7  | 3.4   | 7.6      | 6.4  | 3.8   |
| Open Reduction of Hip Fracture.....        | 39                 | 5.1                 | 5.5  | ----- | 12.8    | 10.1 | ----- | 15.4     | 13.6 | ----- |
| Prostatectomy.....                         | 82                 | 0.0                 | 1.0  | 1.3   | 3.7     | 2.3  | 2.8   | 3.7      | 3.8  | 2.7   |
| Cholecystectomy.....                       | 67                 | 0.0                 | 1.6  | 2.1   | 1.5     | 3.0  | 2.4   | 1.5      | 4.2  | 3.3   |
| Hysterectomy.....                          | 23                 | 0.0                 | 0.5  | ----- | 0.0     | 1.1  | ----- | 4.3      | 1.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MERCY MEDICAL CENTER

Medicare Provider Number: 160079

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.9 years  
Proportion female..... 57.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 46.1 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 55.8 %  
Admitted for emergency..... 30.3 %

### COMORBIDITIES:

Cancer..... 9.8 %  
Chronic cardiovascular disease..... 30.0 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 3.6 %  
Chronic pulmonary disease..... 17.2 %  
Cerebrovascular degeneration..... 4.5 %  
Diabetes mellitus..... 6.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 73.0%  
State ..... 25.7%  
Outside State ..... 1.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 444  
Occupancy Rate ..... 64.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 37.4 %  
Case Mix Index (CMI) ..... 1.2978

### STAFFING:

Total Number of Physicians..... 227  
Percent of Physicians Board  
Certified Specialists ..... 79.3 %  
Medical Residents/Interns ..... 13  
Registered Nurses..... 386  
Licensed Practical Nurses ..... 32

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MERRILL PIONEER COMMUNITY HOSPITAL

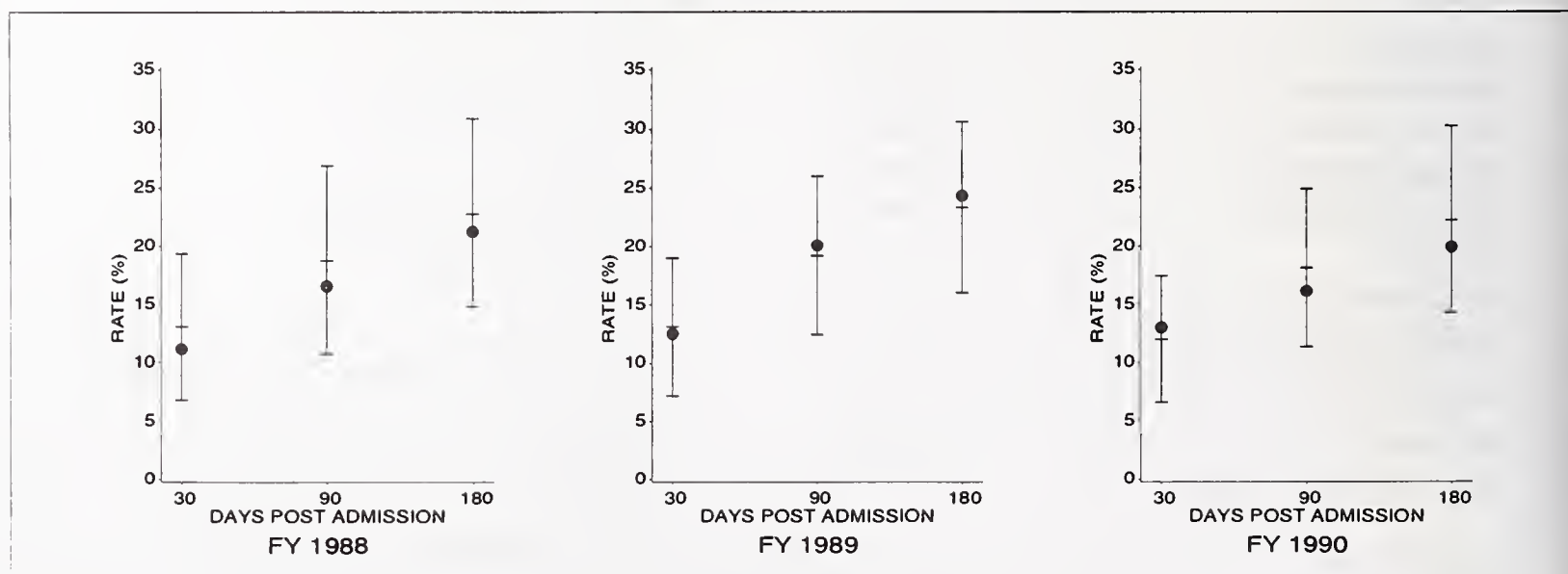
801 SOUTH GREENE STREET  
ROCK RAPIDS, IA 51246  
Medicare Provider Number: 160051

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 161             | 13.0                | 12.0 | 2.7   | 16.1    | 18.1 | 3.4   | 19.9     | 22.2 | 4.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 0.0                 | 29.6 | ----- | 0.0     | 33.7 | ----- | 0.0      | 36.8 | ----- |
| Congestive Heart Failure.....              | 7               | 14.3                | 13.0 | ----- | 14.3    | 20.1 | ----- | 42.9     | 26.3 | ----- |
| Pneumonia/Influenza.....                   | 13              | 23.1                | 13.7 | ----- | 23.1    | 19.1 | ----- | 23.1     | 22.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 12.0 | ----- | 0.0     | 20.2 | ----- | 0.0      | 25.0 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 25.0                | 2.0  | ----- | 25.0    | 4.1  | ----- | 25.0     | 6.4  | ----- |
| Stroke.....                                | 9               | 0.0                 | 19.5 | ----- | 11.1    | 26.1 | ----- | 11.1     | 30.2 | ----- |
| Hip Fracture.....                          | 7               | 14.3                | 6.2  | ----- | 14.3    | 11.0 | ----- | 14.3     | 14.8 | ----- |
| Sepsis.....                                | 4               | 75.0                | 33.3 | ----- | 75.0    | 48.0 | ----- | 75.0     | 55.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 2               | 0.0                 | 4.7  | ----- | 0.0     | 11.0 | ----- | 0.0      | 16.9 | ----- |
| Open Reduction of Hip Fracture.....        | 5               | 20.0                | 5.5  | ----- | 20.0    | 10.1 | ----- | 20.0     | 13.7 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 4               | 0.0                 | 1.9  | ----- | 0.0     | 3.1  | ----- | 0.0      | 4.1  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 1.0  | ----- | 0.0     | 2.3  | ----- | 0.0      | 4.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MERRILL PIONEER COMMUNITY HOSPITAL

Medicare Provider Number: 160051

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 81.3 years  
Proportion female..... 61.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 98.8 %

### COMORBIDITIES:

Cancer..... 6.2 %  
Chronic cardiovascular disease..... 41.4 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 0.6 %  
Chronic pulmonary disease..... 6.8 %  
Cerebrovascular degeneration..... 12.3 %  
Diabetes mellitus..... 4.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 88.8%  
State ..... 7.9%  
Outside State ..... 3.3%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 30  
Occupancy Rate ..... 23.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 60.8 %  
Case Mix Index (CMI) ..... 1.1653

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists ..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 11  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MITCHELL COUNTY MEMORIAL HOSPITAL

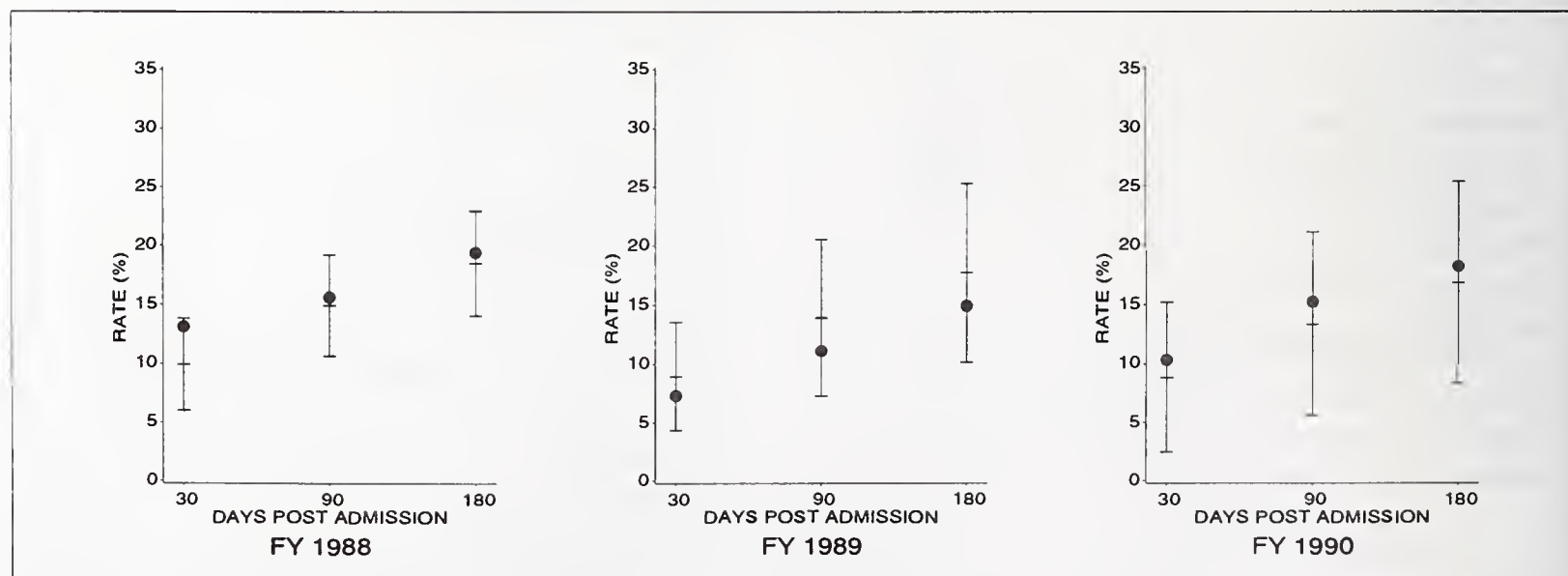
616 N 8TH ST  
OSAGE, IA 50461  
Medicare Provider Number: 160108

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 330                | 10.3                | 8.8  | 3.2   | 15.2    | 13.3 | 3.9   | 18.2     | 16.8 | 4.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 20                 | 35.0                | 26.1 | ----- | 40.0    | 29.2 | ----- | 40.0     | 32.6 | ----- |
| Congestive Heart Failure.....              | 18                 | 16.7                | 15.6 | ----- | 33.3    | 24.9 | ----- | 38.9     | 31.1 | ----- |
| Pneumonia/Influenza.....                   | 24                 | 8.3                 | 11.6 | ----- | 20.8    | 16.0 | ----- | 20.8     | 19.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6                  | 16.7                | 11.2 | ----- | 16.7    | 18.5 | ----- | 50.0     | 24.0 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.8  | ----- | 0.0     | 4.7  | ----- | 0.0      | 8.3  | ----- |
| Stroke.....                                | 17                 | 23.5                | 22.0 | ----- | 35.3    | 28.5 | ----- | 35.3     | 32.8 | ----- |
| Hip Fracture.....                          | 15                 | 13.3                | 4.6  | ----- | 13.3    | 9.1  | ----- | 13.3     | 12.7 | ----- |
| Sepsis.....                                | 1                  | 0.0                 | 25.0 | ----- | 100.0   | 39.8 | ----- | 100.0    | 46.9 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 3                  | 0.0                 | 2.0  | ----- | 0.0     | 4.2  | ----- | 0.0      | 6.8  | ----- |
| Carotid Endarterectomy.....                | 5                  | 0.0                 | 1.0  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.9  | ----- |
| Hip Replacement/Reconstruction.....        | 6                  | 0.0                 | 4.3  | ----- | 0.0     | 8.8  | ----- | 0.0      | 12.6 | ----- |
| Open Reduction of Hip Fracture.....        | 7                  | 14.3                | 4.8  | ----- | 14.3    | 9.7  | ----- | 14.3     | 13.3 | ----- |
| Prostatectomy.....                         | 5                  | 0.0                 | 0.5  | ----- | 0.0     | 1.2  | ----- | 0.0      | 2.1  | ----- |
| Cholecystectomy.....                       | 14                 | 0.0                 | 3.0  | ----- | 7.1     | 6.1  | ----- | 7.1      | 8.2  | ----- |
| Hysterectomy.....                          | 4                  | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MITCHELL COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160108

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.9 years  
Proportion female..... 60.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.3 %

### COMORBIDITIES:

Cancer..... 3.6 %  
Chronic cardiovascular disease..... 37.0 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 3.6 %  
Chronic pulmonary disease..... 9.7 %  
Cerebrovascular degeneration..... 11.8 %  
Diabetes mellitus..... 4.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 74.3%  
State ..... 20.7%  
Outside State ..... 5.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 40  
Occupancy Rate ..... 35.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 50.4 %  
Case Mix Index (CMI) ..... 1.2133

### STAFFING:

Total Number of Physicians..... 21  
Percent of Physicians Board  
Certified Specialists ..... 76.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 22  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MONROE COUNTY HOSPITAL

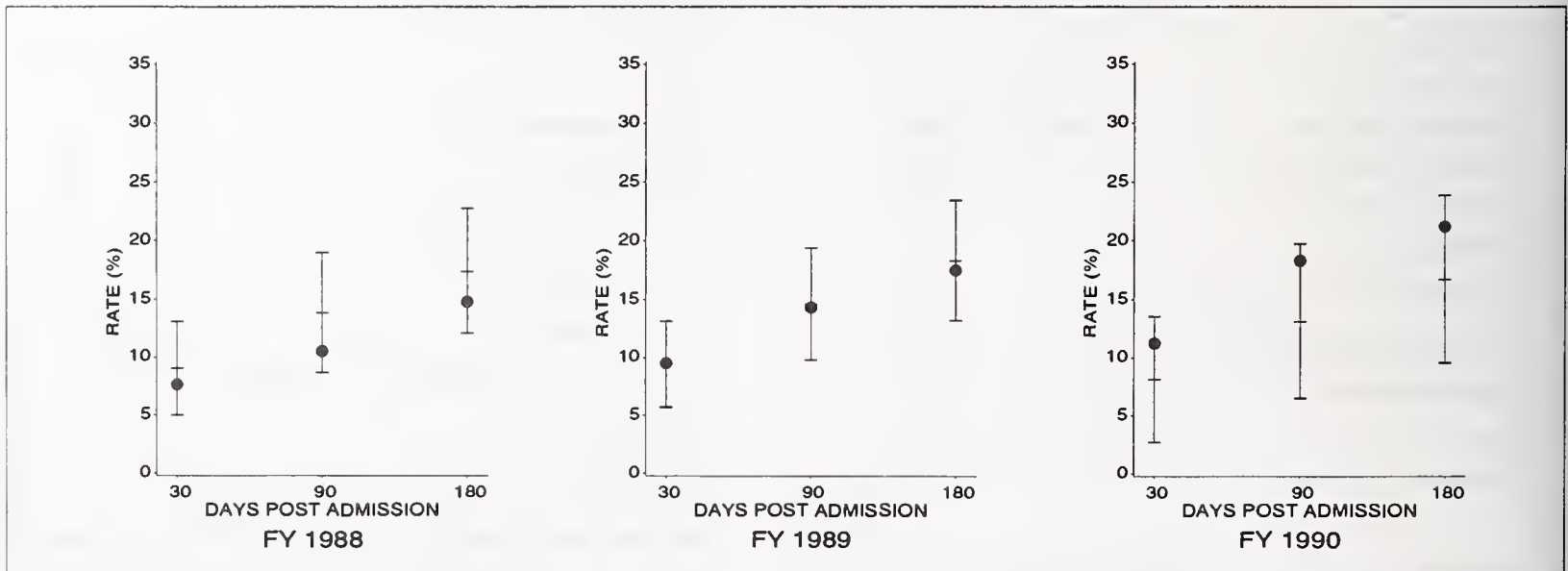
AVERY RD, BOX G-310  
ALBIA, IA 52531  
Medicare Provider Number: 160077

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 240             | 11.2                | 8.1  | 2.7   | 18.3    | 13.1 | 3.3   | 21.2     | 16.7 | 3.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1               | 0.0                 | 43.3 | ----- | 100.0   | 47.3 | ----- | 100.0    | 49.8 | ----- |
| Congestive Heart Failure.....              | 19              | 26.3                | 14.5 | ----- | 36.8    | 23.7 | ----- | 47.4     | 30.2 | ----- |
| Pneumonia/Influenza.....                   | 15              | 26.7                | 15.4 | ----- | 33.3    | 21.6 | ----- | 33.3     | 25.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 12              | 0.0                 | 5.9  | ----- | 16.7    | 11.4 | ----- | 25.0     | 16.2 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.6  | ----- | 0.0     | 3.7  | ----- | 0.0      | 6.1  | ----- |
| Stroke.....                                | 10              | 50.0                | 19.7 | ----- | 50.0    | 28.7 | ----- | 50.0     | 34.6 | ----- |
| Hip Fracture.....                          | 8               | 12.5                | 5.9  | ----- | 12.5    | 10.5 | ----- | 12.5     | 14.1 | ----- |
| Sepsis.....                                | 3               | 33.3                | 24.7 | ----- | 33.3    | 31.1 | ----- | 33.3     | 35.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 5               | 20.0                | 6.6  | ----- | 20.0    | 12.1 | ----- | 20.0     | 16.5 | ----- |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 3.5  | ----- | 0.0     | 6.2  | ----- | 0.0      | 8.7  | ----- |
| Prostatectomy.....                         | 3               | 0.0                 | 0.5  | ----- | 0.0     | 1.1  | ----- | 0.0      | 1.8  | ----- |
| Cholecystectomy.....                       | 6               | 0.0                 | 5.0  | ----- | 16.7    | 10.8 | ----- | 16.7     | 15.3 | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.4  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# MONROE COUNTY HOSPITAL

Medicare Provider Number: 160077

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.5 years  
Proportion female..... 62.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 6.7 %  
Admitted for emergency..... 33.8 %

### COMORBIDITIES:

Cancer..... 3.3 %  
Chronic cardiovascular disease..... 37.5 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.1 %  
Chronic pulmonary disease..... 18.8 %  
Cerebrovascular degeneration..... 8.8 %  
Diabetes mellitus..... 5.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.9%  
State ..... 13.9%  
Outside State ..... 2.2%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 46  
Occupancy Rate ..... 56.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 71.6 %  
Case Mix Index (CMI) ..... 1.0846

### STAFFING:

Total Number of Physicians..... 8  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 24  
Licensed Practical Nurses..... 12

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# MONTGOMERY COUNTY MEMORIAL HOSPITAL

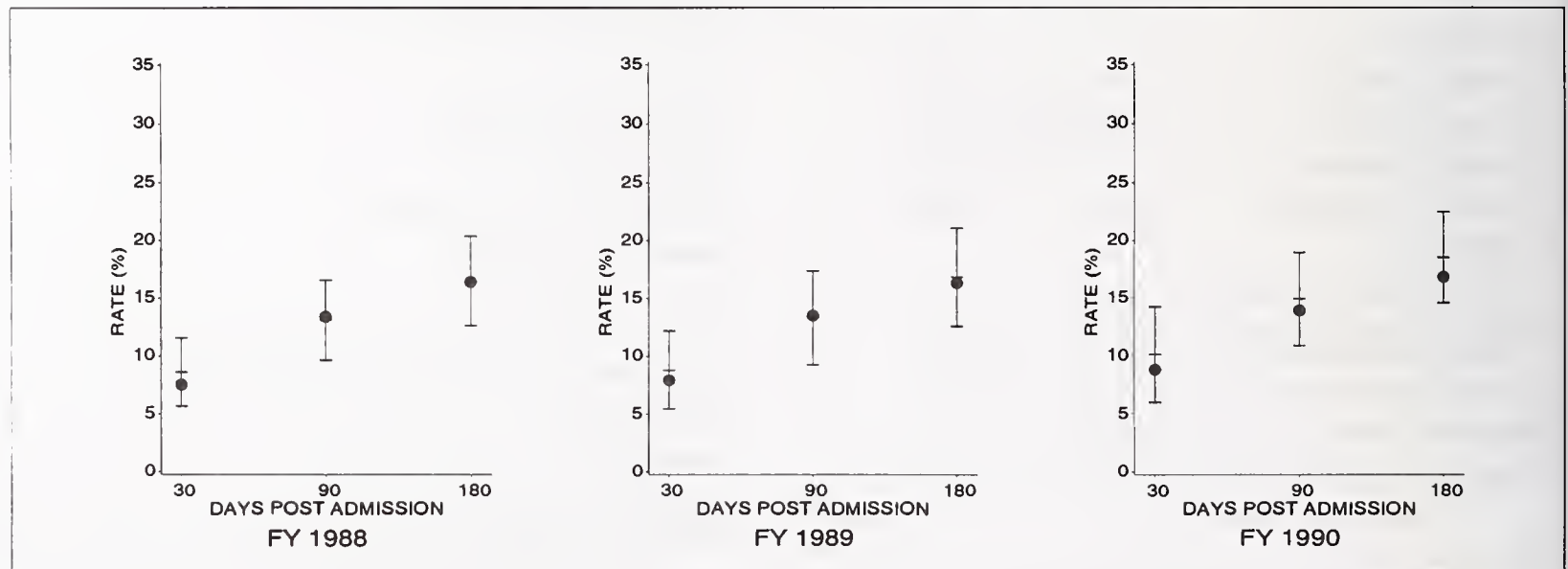
1201 HIGHLAND AVE  
RED OAK, IA 51566  
Medicare Provider Number: 160090

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 589             | 8.8                 | 10.1 | 2.1   | 13.9    | 14.9 | 2.0   | 16.8     | 18.5 | 2.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 28              | 35.7                | 29.6 | ----- | 39.3    | 32.6 | ----- | 39.3     | 35.5 | ----- |
| Congestive Heart Failure.....              | 29              | 3.4                 | 14.7 | ----- | 20.7    | 22.8 | ----- | 27.6     | 28.7 | ----- |
| Pneumonia/Influenza.....                   | 73              | 13.7                | 14.2 | 4.1   | 23.3    | 20.2 | 5.3   | 28.8     | 24.1 | 6.5   |
| Chronic Obstructive Pulmonary Disease..... | 18              | 0.0                 | 5.1  | ----- | 11.1    | 10.3 | ----- | 11.1     | 14.5 | ----- |
| Transient Cerebral Ischemia.....           | 9               | 0.0                 | 1.7  | ----- | 0.0     | 4.1  | ----- | 0.0      | 6.7  | ----- |
| Stroke.....                                | 26              | 19.2                | 20.4 | ----- | 26.9    | 27.3 | ----- | 26.9     | 31.4 | ----- |
| Hip Fracture.....                          | 14              | 7.1                 | 5.2  | ----- | 7.1     | 10.0 | ----- | 7.1      | 13.7 | ----- |
| Sepsis.....                                | 18              | 22.2                | 30.4 | ----- | 27.8    | 38.7 | ----- | 33.3     | 43.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 4               | 0.0                 | 1.7  | ----- | 0.0     | 3.8  | ----- | 50.0     | 6.4  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6               | 16.7                | 4.8  | ----- | 16.7    | 9.4  | ----- | 16.7     | 13.3 | ----- |
| Open Reduction of Hip Fracture.....        | 5               | 0.0                 | 5.2  | ----- | 0.0     | 10.1 | ----- | 0.0      | 13.7 | ----- |
| Prostatectomy.....                         | 19              | 0.0                 | 1.2  | ----- | 0.0     | 2.7  | ----- | 0.0      | 4.6  | ----- |
| Cholecystectomy.....                       | 8               | 12.5                | 3.3  | ----- | 12.5    | 6.5  | ----- | 12.5     | 9.0  | ----- |
| Hysterectomy.....                          | 7               | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MONTGOMERY COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160090

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.9 years  
Proportion female..... 59.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 99.2 %

### COMORBIDITIES:

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 41.9 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 15.3 %  
Cerebrovascular degeneration..... 4.4 %  
Diabetes mellitus..... 8.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 75.7%  
State..... 21.2%  
Outside State..... 3.1%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.8 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 40  
Occupancy Rate..... 63.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 63.2 %  
Case Mix Index (CMI)..... 1.0705

### STAFFING:

Total Number of Physicians..... 11  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 36  
Licensed Practical Nurses..... 12

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# MUSCATINE GENERAL HOSPITAL

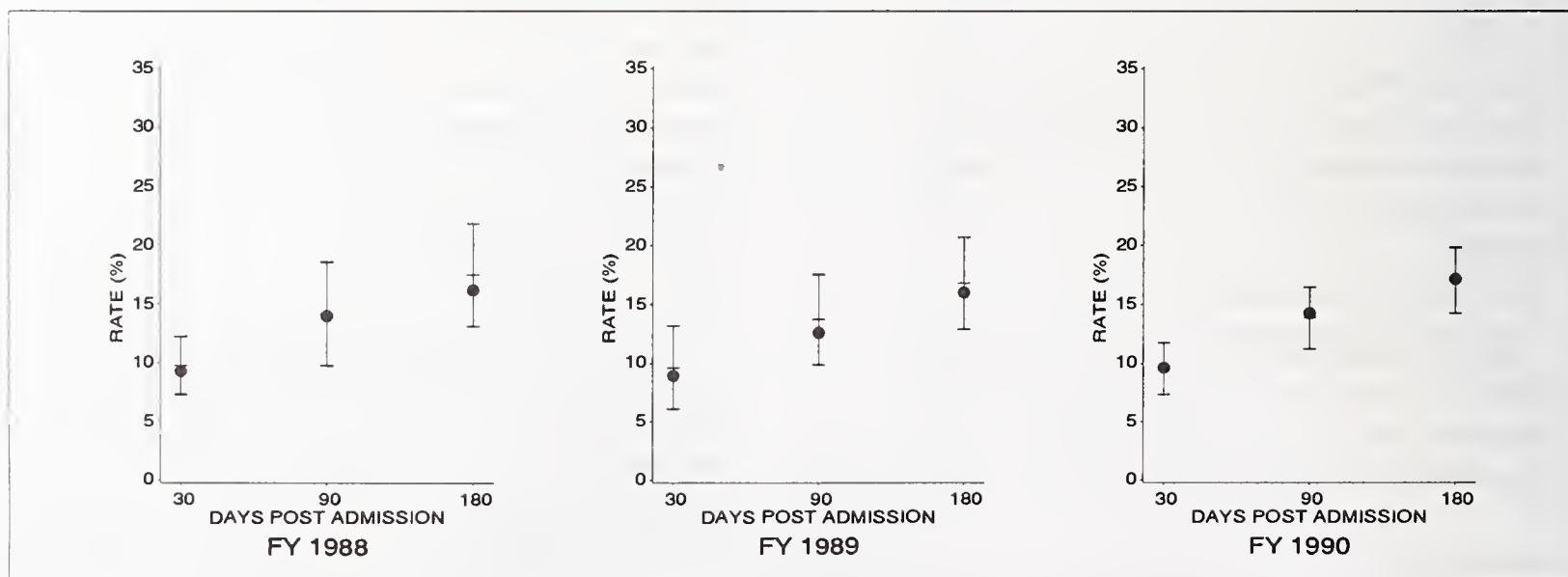
1518 MULBERRY AVE  
MUSCATINE, IA 52761  
Medicare Provider Number: 160013

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 739             | 9.6                 | 9.5  | 1.1  | 14.2    | 13.8 | 1.3  | 17.1     | 17.0 | 1.4  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 27              | 14.8                | 31.0 | ---- | 18.5    | 33.6 | ---- | 18.5     | 36.4 | ---- |
| Congestive Heart Failure.....              | 48              | 14.6                | 14.3 | ---- | 20.8    | 22.1 | ---- | 25.0     | 27.7 | ---- |
| Pneumonia/Influenza.....                   | 56              | 5.4                 | 11.4 | 6.3  | 10.7    | 15.8 | 5.9  | 16.1     | 19.1 | 5.6  |
| Chronic Obstructive Pulmonary Disease..... | 6               | 16.7                | 7.6  | ---- | 16.7    | 13.5 | ---- | 16.7     | 17.9 | ---- |
| Transient Cerebral Ischemia.....           | 9               | 0.0                 | 1.8  | ---- | 0.0     | 4.2  | ---- | 0.0      | 7.1  | ---- |
| Stroke.....                                | 33              | 33.3                | 17.8 | ---- | 33.3    | 23.6 | ---- | 42.4     | 27.5 | ---- |
| Hip Fracture.....                          | 30              | 3.3                 | 6.0  | ---- | 10.0    | 11.0 | ---- | 16.7     | 14.8 | ---- |
| Sepsis.....                                | 18              | 22.2                | 19.7 | ---- | 22.2    | 26.2 | ---- | 22.2     | 31.0 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 4               | 0.0                 | 1.6  | ---- | 0.0     | 3.1  | ---- | 0.0      | 4.9  | ---- |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 12              | 0.0                 | 3.6  | ---- | 16.7    | 6.9  | ---- | 33.3     | 9.5  | ---- |
| Open Reduction of Hip Fracture.....        | 19              | 5.3                 | 6.1  | ---- | 5.3     | 11.6 | ---- | 10.5     | 15.8 | ---- |
| Prostatectomy.....                         | 3               | 0.0                 | 0.7  | ---- | 0.0     | 1.7  | ---- | 0.0      | 3.2  | ---- |
| Cholecystectomy.....                       | 22              | 0.0                 | 1.8  | ---- | 0.0     | 3.1  | ---- | 0.0      | 4.0  | ---- |
| Hysterectomy.....                          | 6               | 0.0                 | 0.2  | ---- | 0.0     | 0.5  | ---- | 0.0      | 0.8  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# MUSCATINE GENERAL HOSPITAL

Medicare Provider Number: 160013

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.8 years  
Proportion female..... 57.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.8 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 0.1 %  
Admitted for emergency..... 1.1 %

### COMORBIDITIES:

Cancer..... 4.9 %  
Chronic cardiovascular disease..... 35.2 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 1.8 %  
Chronic pulmonary disease..... 22.7 %  
Cerebrovascular degeneration..... 3.9 %  
Diabetes mellitus..... 6.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 84.0%  
State ..... 11.3%  
Outside State ..... 4.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 80  
Occupancy Rate ..... 47.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 38.0 %  
Case Mix Index (CMI) ..... 1.2262

### STAFFING:

Total Number of Physicians..... 28  
Percent of Physicians Board  
Certified Specialists..... 89.3 %  
Medical Residents/Interns ..... (Not Available)  
Registered Nurses..... (Not Available)  
Licensed Practical Nurses ..... (Not Available)

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# NORTH IOWA MEDICAL CENTER

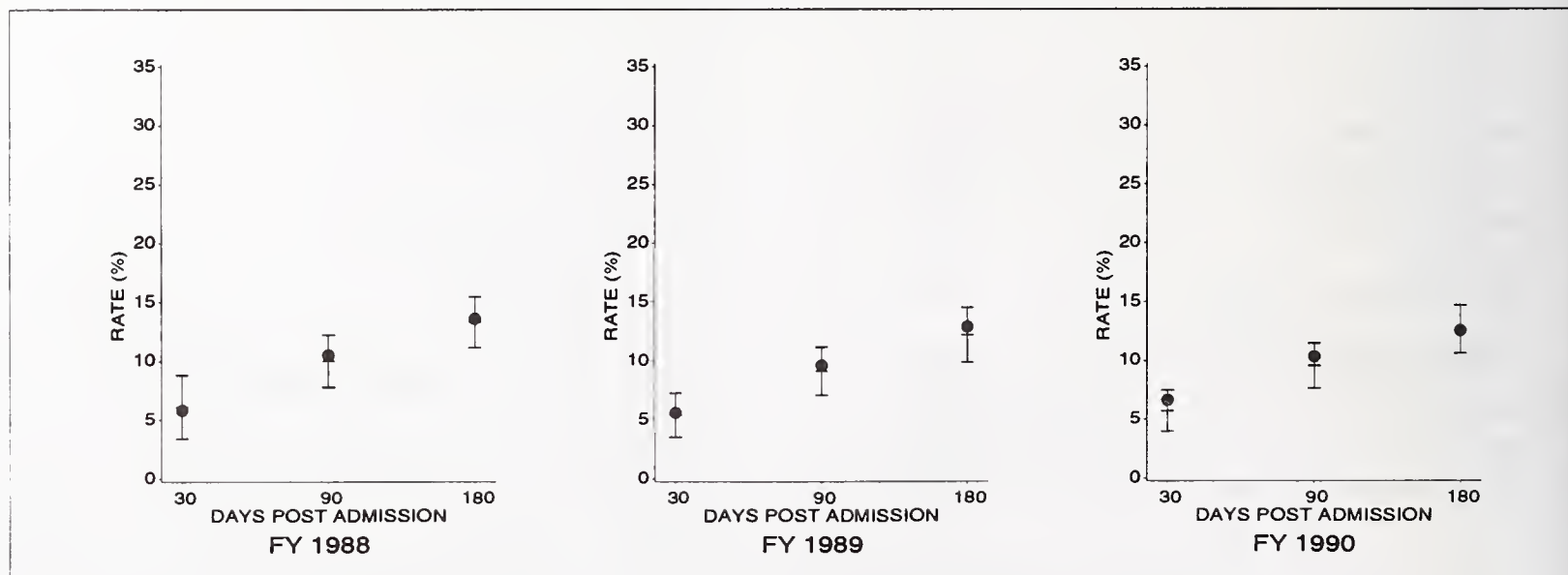
901 N EISENHOWER AVE  
MASON CITY, IA 50401  
Medicare Provider Number: 160059

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1061               | 6.6                 | 5.7  | 0.9   | 10.3    | 9.5  | 1.0   | 12.5     | 12.6 | 1.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 34                 | 38.2                | 20.9 | ----- | 41.2    | 25.2 | ----- | 41.2     | 28.7 | ----- |
| Congestive Heart Failure.....              | 49                 | 14.3                | 14.2 | ----- | 22.4    | 23.2 | ----- | 28.6     | 29.8 | ----- |
| Pneumonia/Influenza.....                   | 28                 | 21.4                | 13.7 | ----- | 25.0    | 20.0 | ----- | 32.1     | 24.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 12                 | 8.3                 | 5.2  | ----- | 8.3     | 9.0  | ----- | 16.7     | 12.6 | ----- |
| Transient Cerebral Ischemia.....           | 7                  | 0.0                 | 1.6  | ----- | 0.0     | 4.1  | ----- | 14.3     | 7.2  | ----- |
| Stroke.....                                | 24                 | 20.8                | 16.7 | ----- | 29.2    | 23.3 | ----- | 29.2     | 27.7 | ----- |
| Hip Fracture.....                          | 46                 | 4.3                 | 4.1  | ----- | 6.5     | 7.5  | ----- | 8.7      | 10.3 | ----- |
| Sepsis.....                                | 8                  | 25.0                | 28.7 | ----- | 37.5    | 42.1 | ----- | 37.5     | 49.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 5                  | 0.0                 | 1.7  | ----- | 0.0     | 3.8  | ----- | 0.0      | 5.9  | ----- |
| Carotid Endarterectomy.....                | 4                  | 25.0                | 2.4  | ----- | 25.0    | 4.4  | ----- | 25.0     | 6.3  | ----- |
| Hip Replacement/Reconstruction.....        | 36                 | 0.0                 | 1.9  | ----- | 2.8     | 3.6  | ----- | 2.8      | 5.1  | ----- |
| Open Reduction of Hip Fracture.....        | 24                 | 4.2                 | 4.0  | ----- | 4.2     | 7.4  | ----- | 8.3      | 10.3 | ----- |
| Prostatectomy.....                         | 65                 | 1.5                 | 0.7  | 1.6   | 3.1     | 1.7  | 2.7   | 4.6      | 3.0  | 4.0   |
| Cholecystectomy.....                       | 31                 | 0.0                 | 2.0  | ----- | 3.2     | 3.3  | ----- | 3.2      | 4.3  | ----- |
| Hysterectomy.....                          | 10                 | 0.0                 | 0.4  | ----- | 0.0     | 1.0  | ----- | 0.0      | 1.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# NORTH IOWA MEDICAL CENTER

Medicare Provider Number: 160059

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.1 years  
Proportion female..... 52.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 58.2 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 97.8 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 10.6 %  
Chronic cardiovascular disease..... 38.4 %  
Chronic liver disease..... 1.1 %  
Chronic renal disease..... 1.6 %  
Chronic pulmonary disease..... 13.9 %  
Cerebrovascular degeneration..... 5.4 %  
Diabetes mellitus..... 6.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 40.2%  
State ..... 57.0%  
Outside State ..... 2.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 67  
Occupancy Rate ..... 67.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 65.9 %  
Case Mix Index (CMI) ..... 1.1941

### STAFFING:

Total Number of Physicians..... 49  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 72  
Licensed Practical Nurses ..... 16

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# NORTHWEST IOWA HEALTH CENTER

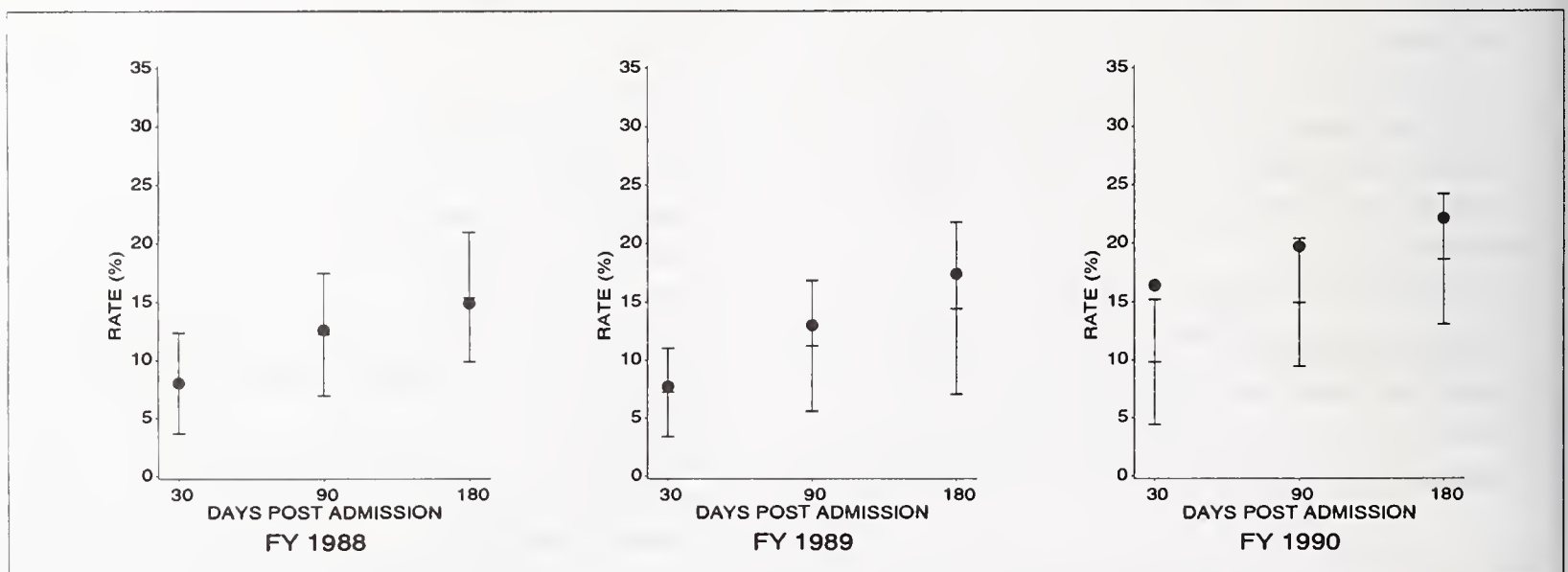
118 N 7TH ST  
SHELDON, IA 51201  
Medicare Provider Number: 160126

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 244             | 16.4                | 9.8  | 2.7   | 19.7    | 14.9 | 2.8   | 22.1     | 18.6 | 2.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 14              | 42.9                | 27.2 | ----- | 50.0    | 30.7 | ----- | 57.1     | 33.8 | ----- |
| Congestive Heart Failure.....              | 10              | 20.0                | 11.4 | ----- | 20.0    | 18.8 | ----- | 30.0     | 25.0 | ----- |
| Pneumonia/Influenza.....                   | 21              | 4.8                 | 12.4 | ----- | 9.5     | 17.1 | ----- | 9.5      | 20.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 33.3                | 7.7  | ----- | 66.7    | 17.5 | ----- | 66.7     | 27.0 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 1.1  | ----- | 0.0     | 2.7  | ----- | 0.0      | 4.7  | ----- |
| Stroke.....                                | 11              | 36.4                | 17.4 | ----- | 45.5    | 25.4 | ----- | 63.6     | 29.8 | ----- |
| Hip Fracture.....                          | 8               | 0.0                 | 4.0  | ----- | 12.5    | 7.1  | ----- | 12.5     | 9.3  | ----- |
| Sepsis.....                                | 2               | 50.0                | 43.6 | ----- | 50.0    | 54.1 | ----- | 50.0     | 59.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1               | 0.0                 | 7.8  | ----- | 0.0     | 12.6 | ----- | 0.0      | 15.5 | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 0.0                 | 3.1  | ----- | 25.0    | 6.0  | ----- | 25.0     | 8.1  | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 4               | 0.0                 | 1.6  | ----- | 0.0     | 2.8  | ----- | 0.0      | 3.8  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.2  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# NORTHWEST IOWA HEALTH CENTER

Medicare Provider Number: 160126

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.5 years  
Proportion female..... 63.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 41.4 %  
Admitted for emergency..... 1.6 %

### COMORBIDITIES:

Cancer..... 9.8 %  
Chronic cardiovascular disease..... 38.1 %  
Chronic liver disease..... 1.2 %  
Chronic renal disease..... 2.9 %  
Chronic pulmonary disease..... 10.2 %  
Cerebrovascular degeneration..... 4.1 %  
Diabetes mellitus..... 9.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 75.2%  
State ..... 23.4%  
Outside State ..... 1.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 86  
Occupancy Rate ..... 74.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 49.8 %  
Case Mix Index (CMI) ..... 1.0521

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists..... 50.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses ..... 9

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# ORANGE CITY MUNICIPAL HOSPITAL

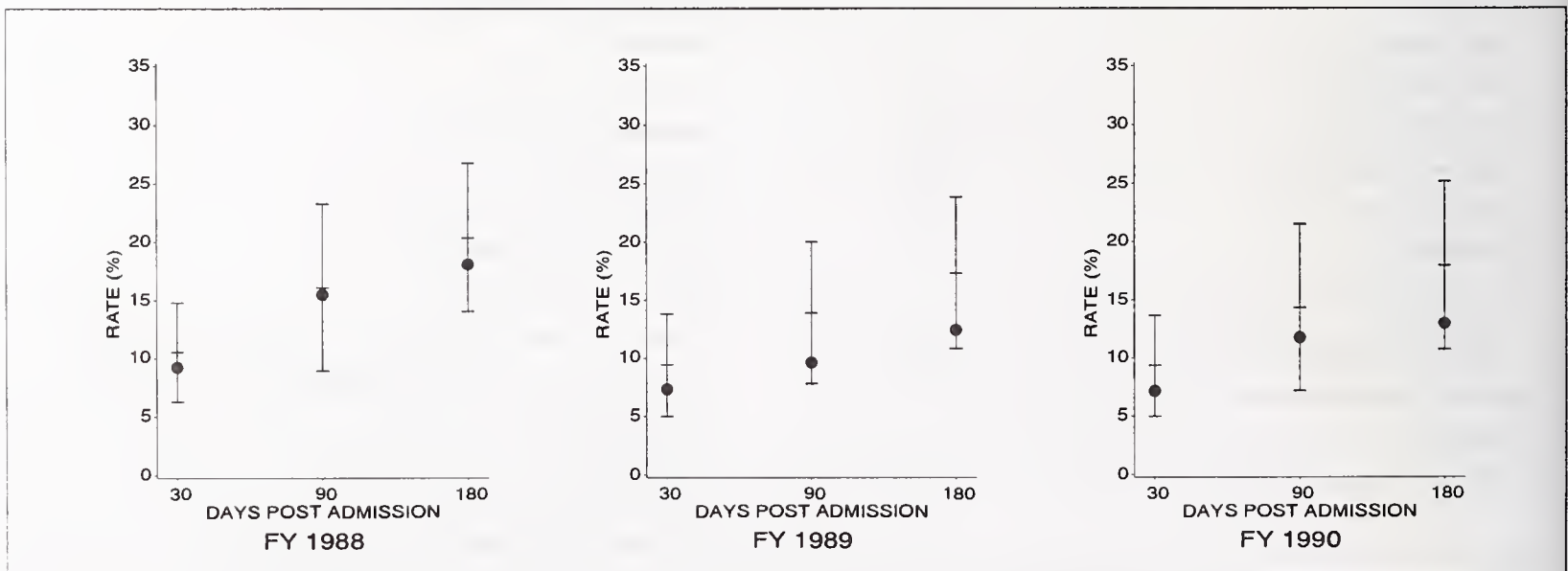
115 4TH ST NW  
ORANGE CITY, IA 51041  
Medicare Provider Number: 160074

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 240                | 7.1                 | 9.3  | 2.2   | 11.7    | 14.3 | 3.6   | 12.9     | 17.9 | 3.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5                  | 0.0                 | 18.3 | ----- | 0.0     | 21.1 | ----- | 0.0      | 23.9 | ----- |
| Congestive Heart Failure.....              | 20                 | 15.0                | 17.1 | ----- | 20.0    | 27.4 | ----- | 25.0     | 34.0 | ----- |
| Pneumonia/Influenza.....                   | 29                 | 6.9                 | 16.0 | ----- | 20.7    | 22.9 | ----- | 20.7     | 27.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2                  | 0.0                 | 6.0  | ----- | 0.0     | 12.0 | ----- | 0.0      | 16.6 | ----- |
| Transient Cerebral Ischemia.....           | 5                  | 0.0                 | 1.4  | ----- | 0.0     | 3.2  | ----- | 0.0      | 5.3  | ----- |
| Stroke.....                                | 9                  | 33.3                | 18.0 | ----- | 33.3    | 25.3 | ----- | 33.3     | 30.2 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 5                  | 0.0                 | 37.0 | ----- | 20.0    | 43.0 | ----- | 20.0     | 46.7 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 3                  | 0.0                 | 1.1  | ----- | 0.0     | 2.7  | ----- | 0.0      | 4.9  | ----- |
| Cholecystectomy.....                       | 11                 | 0.0                 | 1.5  | ----- | 0.0     | 2.7  | ----- | 0.0      | 3.8  | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 6.8  | ----- | 0.0     | 14.9 | ----- | 0.0      | 21.9 | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ORANGE CITY MUNICIPAL HOSPITAL

Medicare Provider Number: 160074

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.0 years  
Proportion female..... 60.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 80.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 7.1 %  
Chronic cardiovascular disease..... 28.8 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 13.8 %  
Cerebrovascular degeneration..... 4.2 %  
Diabetes mellitus..... 5.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 85.5%  
State ..... 13.0%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 43  
Occupancy Rate ..... 69.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 36.7 %  
Case Mix Index (CMI) ..... 1.0579

### STAFFING:

Total Number of Physicians..... 9  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses ..... 16  
Licensed Practical Nurses ..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# OSCEOLA COMMUNITY HOSPITAL

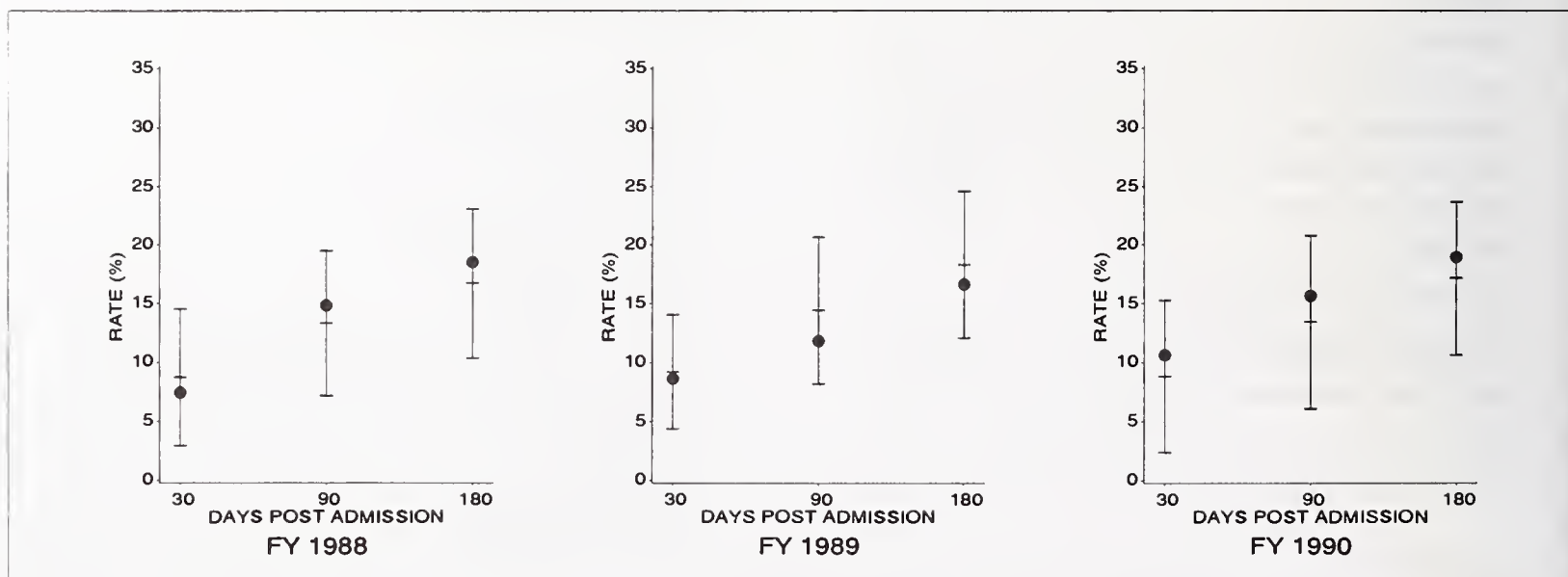
110 CEDAR LANE  
SIBLEY, IA 51249  
Medicare Provider Number: 160130

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 180             | 10.6                | 8.8  | 3.2   | 15.6    | 13.4 | 3.7   | 18.9     | 17.1 | 3.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 14.3                | 31.5 | ----- | 14.3    | 36.1 | ----- | 14.3     | 40.0 | ----- |
| Congestive Heart Failure.....              | 18              | 11.1                | 11.7 | ----- | 27.8    | 18.5 | ----- | 33.3     | 24.2 | ----- |
| Pneumonia/Influenza.....                   | 17              | 17.6                | 13.4 | ----- | 29.4    | 19.0 | ----- | 29.4     | 22.9 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 1               | 0.0                 | 15.9 | ----- | 0.0     | 24.5 | ----- | 100.0    | 31.8 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.2  | ----- | 0.0     | 3.4  | ----- | 0.0      | 6.3  | ----- |
| Stroke.....                                | 10              | 30.0                | 16.9 | ----- | 30.0    | 23.9 | ----- | 40.0     | 27.3 | ----- |
| Hip Fracture.....                          | 2               | 0.0                 | 4.6  | ----- | 0.0     | 9.5  | ----- | 0.0      | 13.7 | ----- |
| Sepsis.....                                | 4               | 0.0                 | 10.6 | ----- | 25.0    | 15.5 | ----- | 25.0     | 19.0 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 1               | 0.0                 | 4.0  | ----- | 0.0     | 9.3  | ----- | 0.0      | 14.0 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 10              | 0.0                 | 3.1  | ----- | 0.0     | 6.1  | ----- | 0.0      | 8.2  | ----- |
| Hysterectomy.....                          | 5               | 0.0                 | 0.1  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# OSCEOLA COMMUNITY HOSPITAL

Medicare Provider Number: 160130

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.7 years  
Proportion female..... 58.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 48.6 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 66.3 %  
Admitted for emergency..... 0.6 %

### COMORBIDITIES:

Cancer..... 7.7 %  
Chronic cardiovascular disease..... 26.0 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 2.2 %  
Chronic pulmonary disease..... 13.3 %  
Cerebrovascular degeneration..... 6.1 %  
Diabetes mellitus..... 2.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 78.1 %  
State..... 15.5 %  
Outside State..... 6.4 %  
Total..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 7.2 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 32  
Occupancy Rate..... 28.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 46.1 %  
Case Mix Index (CMI)..... 1.0823

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses..... 8

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# OTTUMWA REGIONAL HEALTH CENTER

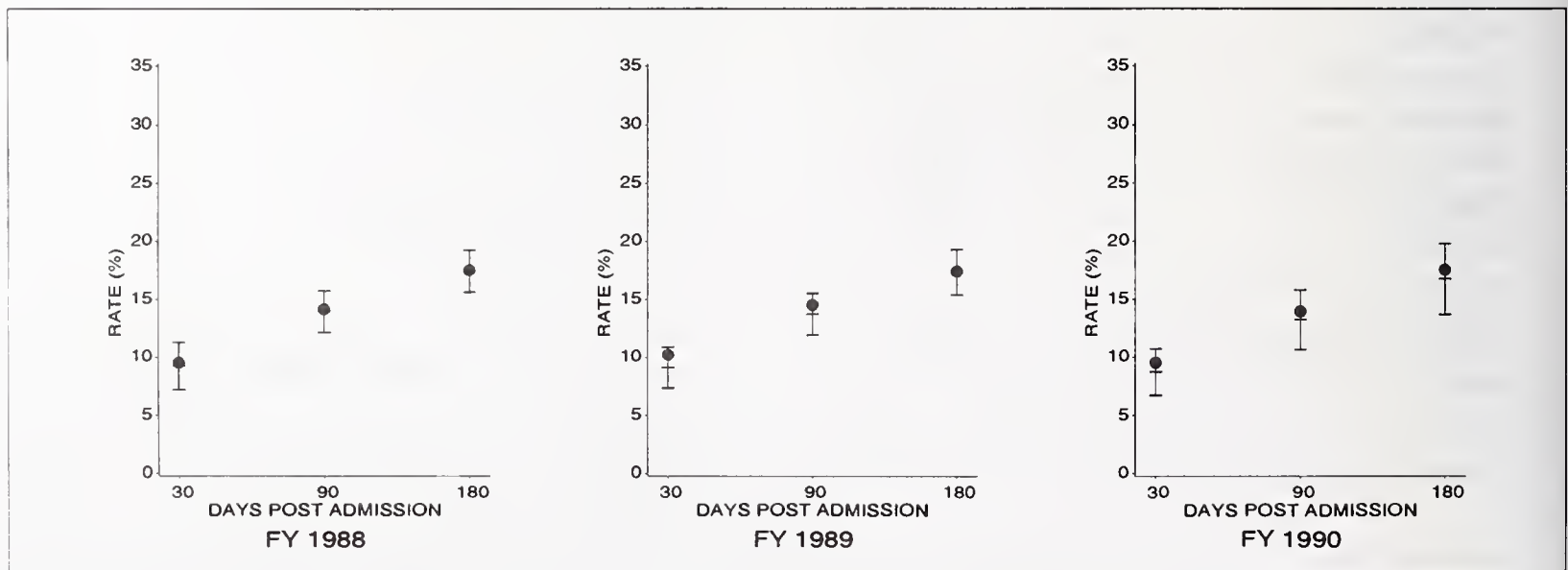
1001 E PENNSYLVANIA  
OTTUMWA, IA 52501  
Medicare Provider Number: 160089

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1723            | 9.5                 | 8.7  | 1.0   | 13.9    | 13.2 | 1.3   | 17.5     | 16.7 | 1.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 63              | 46.0                | 33.3 | 9.7   | 49.2    | 36.0 | 10.0  | 49.2     | 39.1 | 9.0   |
| Congestive Heart Failure.....              | 73              | 17.8                | 14.0 | 4.4   | 24.7    | 21.9 | 5.1   | 30.1     | 27.9 | 5.7   |
| Pneumonia/Influenza.....                   | 86              | 17.4                | 14.5 | 4.3   | 27.9    | 20.3 | 5.5   | 37.2     | 24.2 | 7.3   |
| Chronic Obstructive Pulmonary Disease..... | 27              | 14.8                | 5.5  | ----- | 18.5    | 10.0 | ----- | 25.9     | 13.8 | ----- |
| Transient Cerebral Ischemia.....           | 25              | 0.0                 | 1.8  | ----- | 0.0     | 4.0  | ----- | 4.0      | 6.6  | ----- |
| Stroke.....                                | 94              | 13.8                | 18.3 | 7.2   | 19.1    | 24.2 | 6.7   | 22.3     | 28.0 | 7.0   |
| Hip Fracture.....                          | 67              | 10.4                | 8.4  | 3.8   | 13.4    | 14.6 | 5.1   | 13.4     | 18.8 | 6.7   |
| Sepsis.....                                | 10              | 30.0                | 22.2 | ----- | 40.0    | 31.2 | ----- | 40.0     | 36.9 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 14              | 14.3                | 3.1  | ----- | 14.3    | 5.4  | ----- | 14.3     | 7.6  | ----- |
| Carotid Endarterectomy.....                | 5               | 0.0                 | 2.1  | ----- | 20.0    | 4.0  | ----- | 20.0     | 5.9  | ----- |
| Hip Replacement/Reconstruction.....        | 60              | 1.7                 | 3.5  | 2.6   | 3.3     | 6.3  | 4.0   | 3.3      | 8.3  | 4.7   |
| Open Reduction of Hip Fracture.....        | 30              | 10.0                | 8.4  | ----- | 13.3    | 15.4 | ----- | 13.3     | 20.4 | ----- |
| Prostatectomy.....                         | 76              | 3.9                 | 1.6  | 2.4   | 5.3     | 3.5  | 2.7   | 7.9      | 5.6  | 3.0   |
| Cholecystectomy.....                       | 38              | 2.6                 | 2.4  | ----- | 10.5    | 4.7  | ----- | 10.5     | 6.5  | ----- |
| Hysterectomy.....                          | 21              | 4.8                 | 1.2  | ----- | 4.8     | 2.5  | ----- | 4.8      | 3.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# OTTUMWA REGIONAL HEALTH CENTER

Medicare Provider Number: 160089

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.5 years  
Proportion female..... 57.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 37.9 %  
Transferred from skilled nursing facility..... 0.4 %  
Admitted for elective procedure..... 0.3 %  
Admitted for emergency..... 2.7 %

### COMORBIDITIES:

Cancer..... 8.8 %  
Chronic cardiovascular disease..... 40.2 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 0.8 %  
Chronic pulmonary disease..... 22.2 %  
Cerebrovascular degeneration..... 4.5 %  
Diabetes mellitus..... 5.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 67.5%  
State..... 30.8%  
Outside State..... 1.7%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 8.1 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 220  
Occupancy Rate..... 56.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges..... 44.4 %  
Case Mix Index (CMI)..... 1.2068

### STAFFING:

Total Number of Physicians..... 48  
Percent of Physicians Board  
Certified Specialists..... 75.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 198  
Licensed Practical Nurses..... 40

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... Yes  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... Yes  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... Yes  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# PALMER LUTHERAN HEALTH CENTER

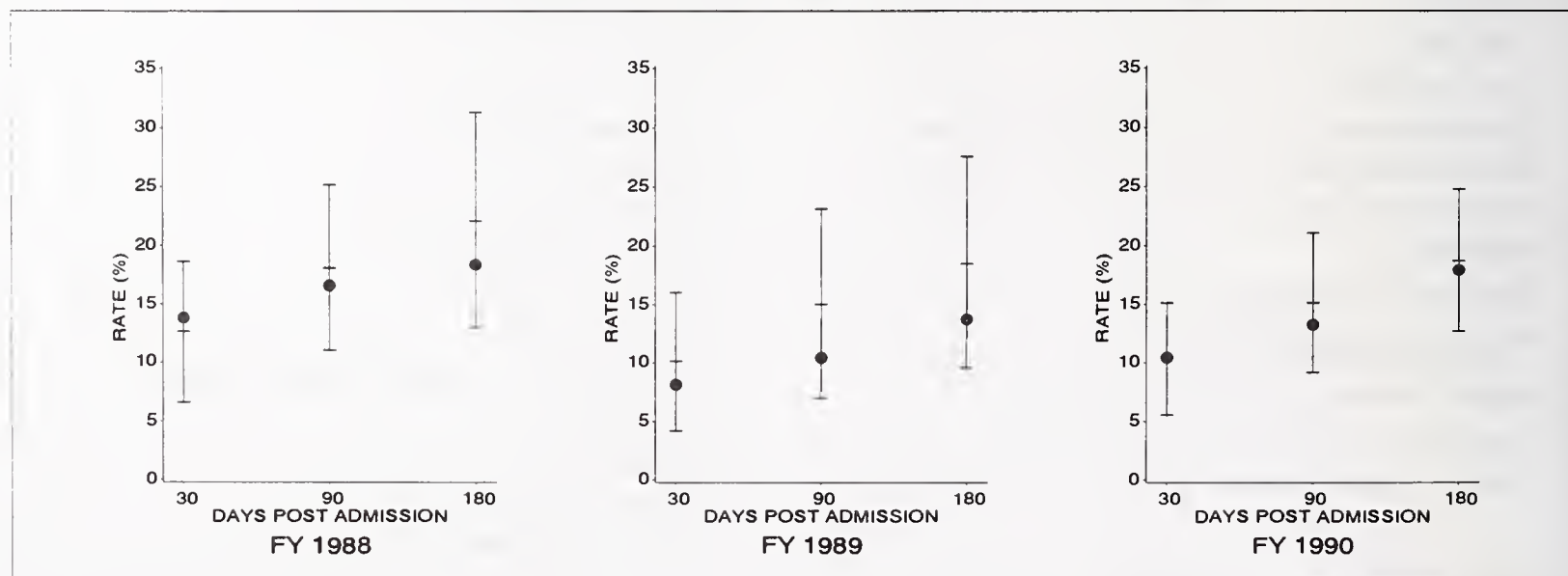
112 JEFFERSON STREET  
WEST UNION, IA 52175  
Medicare Provider Number: 160129

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 212             | 10.4                | 10.3 | 2.4   | 13.2    | 15.1 | 3.0   | 17.9     | 18.7 | 3.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 60.0                | 34.3 | ----- | 60.0    | 40.5 | ----- | 60.0     | 44.1 | ----- |
| Congestive Heart Failure.....              | 12              | 8.3                 | 19.1 | ----- | 16.7    | 29.2 | ----- | 41.7     | 36.1 | ----- |
| Pneumonia/Influenza.....                   | 36              | 22.2                | 19.6 | ----- | 27.8    | 26.4 | ----- | 30.6     | 30.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3               | 0.0                 | 13.4 | ----- | 0.0     | 21.3 | ----- | 0.0      | 27.5 | ----- |
| Transient Cerebral Ischemia.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 11              | 18.2                | 24.0 | ----- | 27.3    | 29.4 | ----- | 27.3     | 33.1 | ----- |
| Hip Fracture.....                          | 3               | 0.0                 | 6.8  | ----- | 0.0     | 12.4 | ----- | 0.0      | 16.0 | ----- |
| Sepsis.....                                | 5               | 0.0                 | 9.5  | ----- | 0.0     | 13.9 | ----- | 0.0      | 17.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 4               | 0.0                 | 2.0  | ----- | 0.0     | 4.3  | ----- | 0.0      | 6.3  | ----- |
| Open Reduction of Hip Fracture.....        | 2               | 0.0                 | 7.9  | ----- | 0.0     | 14.9 | ----- | 0.0      | 19.4 | ----- |
| Prostatectomy.....                         | 7               | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.2  | ----- |
| Cholecystectomy.....                       | 14              | 0.0                 | 3.3  | ----- | 0.0     | 6.2  | ----- | 0.0      | 8.4  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PALMER LUTHERAN HEALTH CENTER

Medicare Provider Number: 160129

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 59.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 38.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 19.3 %  
Admitted for emergency..... 60.4 %

### COMORBIDITIES:

Cancer..... 7.5 %  
Chronic cardiovascular disease..... 41.0 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 3.8 %  
Chronic pulmonary disease..... 17.9 %  
Cerebrovascular degeneration..... 7.5 %  
Diabetes mellitus..... 9.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 89.1%  
State ..... 9.9%  
Outside State ..... 1.0%  
-----  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 30  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 30.5 %  
Case Mix Index (CMI) ..... 1.1444

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists..... 66.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 32  
Licensed Practical Nurses ..... 6

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# PALO ALTO COUNTY HOSPITAL

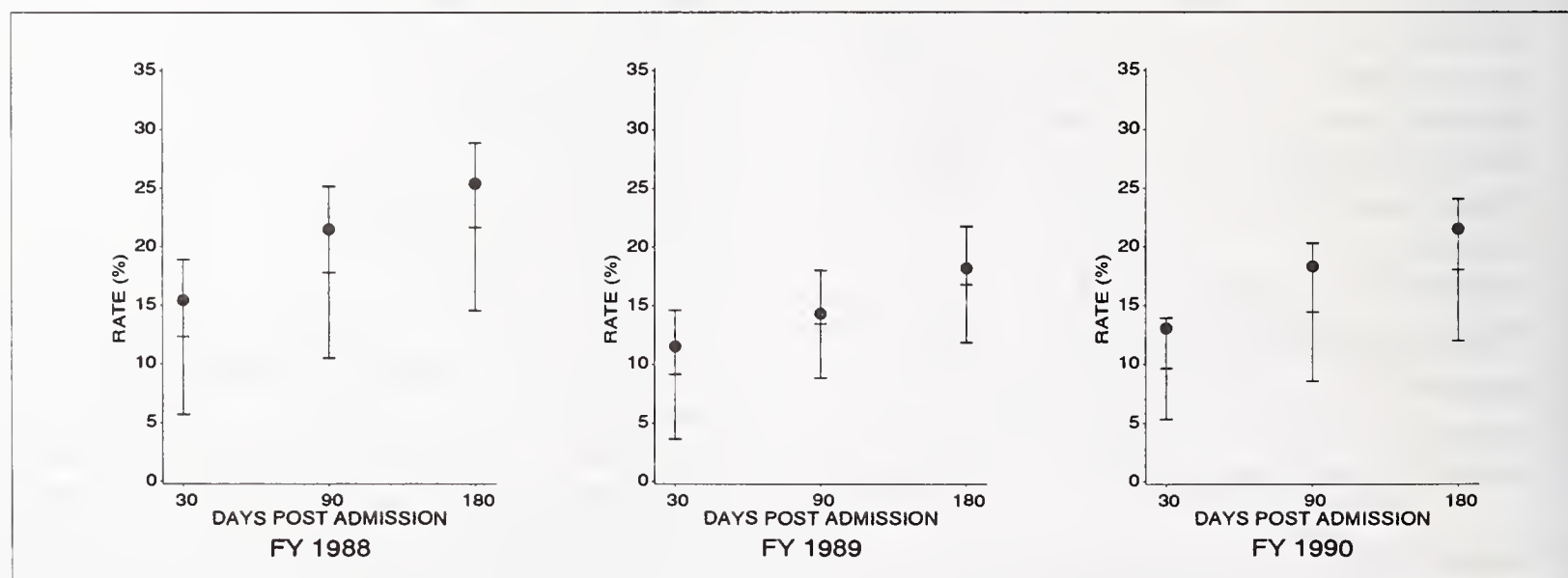
WEST 1ST ST  
EMMETSBURG, IA 50536  
Medicare Provider Number: 160118

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 246                | 13.0                | 9.6  | 2.2   | 18.3    | 14.4 | 3.0   | 21.5     | 18.0 | 3.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 16                 | 18.8                | 23.8 | ----- | 25.0    | 27.1 | ----- | 31.3     | 30.1 | ----- |
| Congestive Heart Failure.....              | 12                 | 8.3                 | 16.3 | ----- | 16.7    | 25.9 | ----- | 25.0     | 32.6 | ----- |
| Pneumonia/Influenza.....                   | 21                 | 33.3                | 15.6 | ----- | 38.1    | 22.2 | ----- | 38.1     | 26.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4                  | 0.0                 | 3.0  | ----- | 0.0     | 6.0  | ----- | 0.0      | 8.6  | ----- |
| Transient Cerebral Ischemia.....           | 2                  | 0.0                 | 1.4  | ----- | 0.0     | 3.0  | ----- | 0.0      | 4.9  | ----- |
| Stroke.....                                | 18                 | 16.7                | 16.9 | ----- | 16.7    | 22.8 | ----- | 22.2     | 26.6 | ----- |
| Hip Fracture.....                          | 2                  | 0.0                 | 4.2  | ----- | 0.0     | 8.3  | ----- | 0.0      | 11.8 | ----- |
| Sepsis.....                                | 2                  | 0.0                 | 19.8 | ----- | 0.0     | 31.5 | ----- | 0.0      | 38.1 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1                  | 0.0                 | 1.6  | ----- | 0.0     | 3.6  | ----- | 100.0    | 6.2  | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 1                  | 0.0                 | 4.0  | ----- | 0.0     | 7.9  | ----- | 0.0      | 11.0 | ----- |
| Prostatectomy.....                         | 7                  | 0.0                 | 1.1  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.6  | ----- |
| Cholecystectomy.....                       | 9                  | 11.1                | 4.0  | ----- | 11.1    | 8.6  | ----- | 11.1     | 12.2 | ----- |
| Hysterectomy.....                          | 1                  | 0.0                 | 0.6  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# PALO ALTO COUNTY HOSPITAL

Medicare Provider Number: 160118

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.1 years  
Proportion female..... 59.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.8 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 33.3 %

### COMORBIDITIES:

Cancer..... 9.3 %  
Chronic cardiovascular disease..... 38.6 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 4.1 %  
Chronic pulmonary disease..... 13.8 %  
Cerebrovascular degeneration..... 5.7 %  
Diabetes mellitus..... 8.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 76.4%  
State ..... 22.2%  
Outside State ..... 1.4%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 54  
Occupancy Rate ..... 63.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 45.4 %  
Case Mix Index (CMI) ..... 1.0810

### STAFFING:

Total Number of Physicians..... 6  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 28  
Licensed Practical Nurses ..... 0

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# PELLA COMMUNITY HOSPITAL

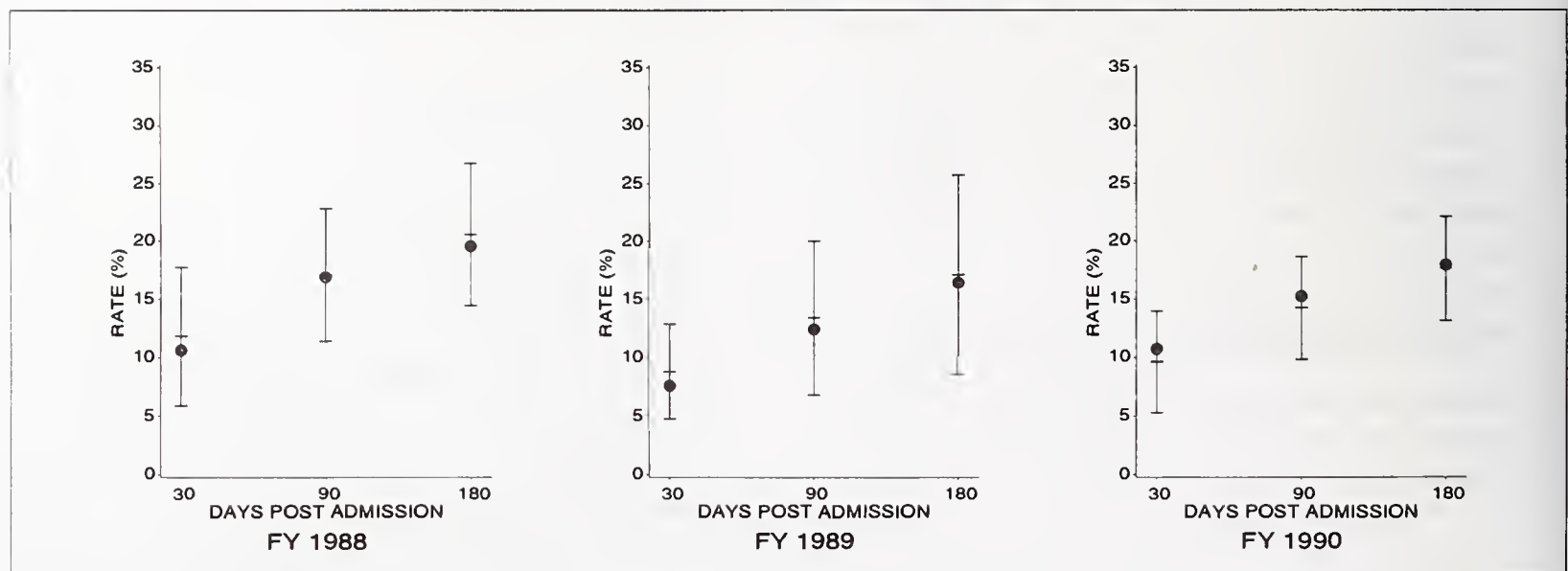
404 JEFFERSON ST  
PELLA, IA 50219  
Medicare Provider Number: 160044

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 290             | 10.7                | 9.6  | 2.2   | 15.2    | 14.2 | 2.2   | 17.9     | 17.6 | 2.3   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 13              | 30.8                | 20.1 | ----- | 30.8    | 23.1 | ----- | 30.8     | 26.0 | ----- |
| Congestive Heart Failure.....              | 20              | 10.0                | 14.1 | ----- | 20.0    | 22.5 | ----- | 35.0     | 28.5 | ----- |
| Pneumonia/Influenza.....                   | 14              | 21.4                | 11.3 | ----- | 28.6    | 15.5 | ----- | 28.6     | 18.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6               | 0.0                 | 5.9  | ----- | 0.0     | 10.9 | ----- | 0.0      | 14.7 | ----- |
| Transient Cerebral Ischemia.....           | 1               | 0.0                 | 0.6  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.7  | ----- |
| Stroke.....                                | 17              | 29.4                | 19.6 | ----- | 29.4    | 25.3 | ----- | 35.3     | 29.0 | ----- |
| Hip Fracture.....                          | 10              | 40.0                | 8.1  | ----- | 40.0    | 14.3 | ----- | 50.0     | 18.4 | ----- |
| Sepsis.....                                | 5               | 0.0                 | 31.1 | ----- | 0.0     | 40.5 | ----- | 0.0      | 46.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 7               | 28.6                | 5.0  | ----- | 28.6    | 8.6  | ----- | 42.9     | 10.9 | ----- |
| Open Reduction of Hip Fracture.....        | 5               | 20.0                | 6.7  | ----- | 20.0    | 12.4 | ----- | 20.0     | 16.5 | ----- |
| Prostatectomy.....                         | 5               | 20.0                | 1.6  | ----- | 20.0    | 3.5  | ----- | 20.0     | 5.6  | ----- |
| Cholecystectomy.....                       | 14              | 0.0                 | 4.2  | ----- | 0.0     | 7.8  | ----- | 0.0      | 10.3 | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PELLA COMMUNITY HOSPITAL

Medicare Provider Number: 160044

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.8 years  
Proportion female..... 54.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 96.9 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 99.0 %

### COMORBIDITIES:

Cancer..... 6.2 %  
Chronic cardiovascular disease..... 39.3 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 0.3 %  
Chronic pulmonary disease..... 12.8 %  
Cerebrovascular degeneration..... 3.4 %  
Diabetes mellitus..... 6.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 79.5%  
State ..... 19.0%  
Outside State ..... 1.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 132  
Occupancy Rate ..... 90.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 29.9 %  
Case Mix Index (CMI) ..... 1.2637

### STAFFING:

Total Number of Physicians..... 14  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 42  
Licensed Practical Nurses ..... 13

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# PEOPLES MEMORIAL HOSPITAL

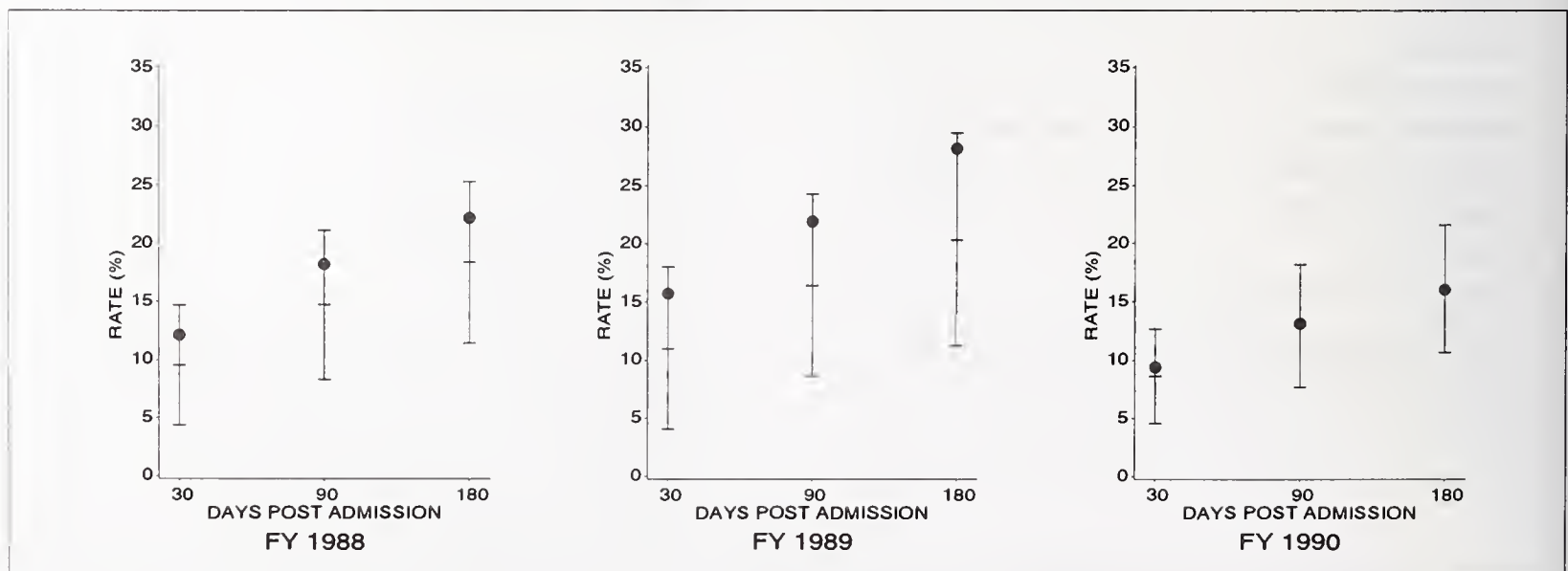
1600 1ST STREET EAST  
INDEPENDENCE, IA 50644  
Medicare Provider Number: 160086

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 213             | 9.4                 | 8.6  | 2.0   | 13.1    | 12.9 | 2.6   | 16.0     | 16.1 | 2.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5               | 40.0                | 23.4 | ----- | 40.0    | 25.3 | ----- | 40.0     | 27.8 | ----- |
| Congestive Heart Failure.....              | 10              | 0.0                 | 16.6 | ----- | 0.0     | 23.9 | ----- | 0.0      | 29.2 | ----- |
| Pneumonia/Influenza.....                   | 31              | 19.4                | 17.0 | ----- | 25.8    | 23.4 | ----- | 35.5     | 27.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 5               | 20.0                | 5.6  | ----- | 20.0    | 10.2 | ----- | 20.0     | 14.3 | ----- |
| Transient Cerebral Ischemia.....           | 2               | 0.0                 | 1.4  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |
| Stroke.....                                | 7               | 42.9                | 23.5 | ----- | 42.9    | 33.0 | ----- | 57.1     | 38.7 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 1               | 0.0                 | 5.0  | ----- | 0.0     | 7.3  | ----- | 0.0      | 9.6  | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 2               | 0.0                 | 0.4  | ----- | 0.0     | 0.8  | ----- | 0.0      | 1.4  | ----- |
| Cholecystectomy.....                       | 3               | 0.0                 | 0.9  | ----- | 0.0     | 1.8  | ----- | 0.0      | 2.3  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# PEOPLES MEMORIAL HOSPITAL

Medicare Provider Number: 160086

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.6 years

Proportion female..... 60.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 92.5 %

Transferred from skilled nursing facility..... 0.0 %

Admitted for elective procedure..... 0.0 %

Admitted for emergency..... 92.5 %

### COMORBIDITIES:

Cancer..... 6.6 %

Chronic cardiovascular disease..... 39.4 %

Chronic liver disease..... 0.9 %

Chronic renal disease..... 0.5 %

Chronic pulmonary disease..... 17.4 %

Cerebrovascular degeneration..... 1.9 %

Diabetes mellitus..... 8.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 87.7%

State ..... 11.3%

Outside State ..... 1.0%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.3 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 109

Occupancy Rate ..... 56.0 %

Ownership/Control..... Local Government

Medicare Discharges ..... 36.2 %

Case Mix Index (CMI) ..... 0.9504

### STAFFING:

Total Number of Physicians..... 12

Percent of Physicians Board  
Certified Specialists..... 75.0 %

Medical Residents/Interns ..... 0

Registered Nurses..... 20

Licensed Practical Nurses ..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care ..... No

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... No

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# POCAHONTAS COMMUNITY HOSPITAL

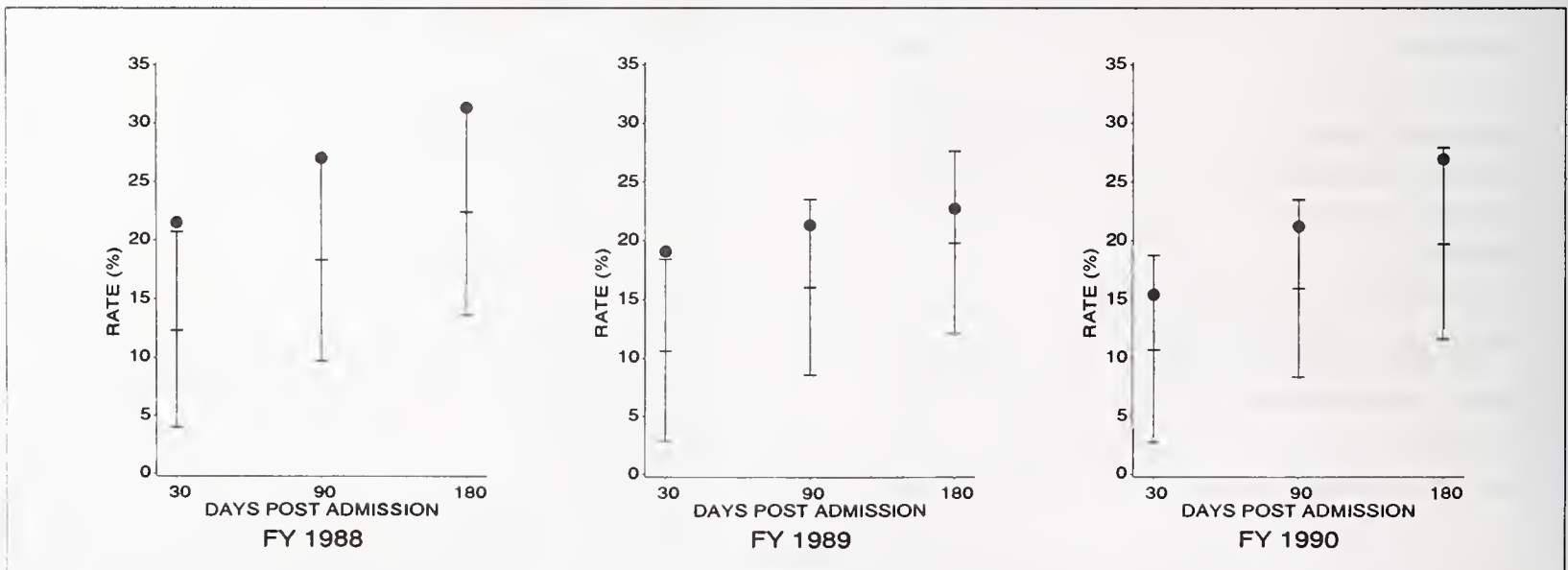
606 NW SEVENTH  
POCAHONTAS, IA 50574  
Medicare Provider Number: 160142

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 156                | 15.4                | 10.7 | 4.0   | 21.2    | 15.9 | 3.8   | 26.9     | 19.7 | 4.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 10                 | 30.0                | 32.5 | ----- | 40.0    | 36.3 | ----- | 50.0     | 39.7 | ----- |
| Congestive Heart Failure.....              | 16                 | 18.8                | 16.2 | ----- | 37.5    | 25.9 | ----- | 43.8     | 32.6 | ----- |
| Pneumonia/Influenza.....                   | 23                 | 21.7                | 13.7 | ----- | 21.7    | 18.9 | ----- | 26.1     | 22.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 1                  | 0.0                 | 1.2  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.6  | ----- |
| Stroke.....                                | 5                  | 60.0                | 18.4 | ----- | 60.0    | 26.1 | ----- | 60.0     | 30.9 | ----- |
| Hip Fracture.....                          | 0                  |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 4                  | 25.0                | 18.5 | ----- | 25.0    | 24.4 | ----- | 25.0     | 29.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 5                  | 0.0                 | 0.7  | ----- | 0.0     | 1.3  | ----- | 0.0      | 1.8  | ----- |
| Hysterectomy.....                          | 4                  | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.9  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# POCAHONTAS COMMUNITY HOSPITAL

Medicare Provider Number: 160142

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 80.1 years  
Proportion female..... 62.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 1.3 %

### COMORBIDITIES:

Cancer..... 7.1 %  
Chronic cardiovascular disease..... 28.2 %  
Chronic liver disease..... 0.6 %  
Chronic renal disease..... 4.5 %  
Chronic pulmonary disease..... 12.8 %  
Cerebrovascular degeneration..... 3.2 %  
Diabetes mellitus..... 7.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 81.8%  
State ..... 16.4%  
Outside State ..... 1.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 20  
Occupancy Rate ..... 30.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 65.0 %  
Case Mix Index (CMI) ..... 1.1090

### STAFFING:

Total Number of Physicians..... 12  
Percent of Physicians Board  
Certified Specialists..... 75.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 10  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# RINGGOLD COUNTY HOSPITAL

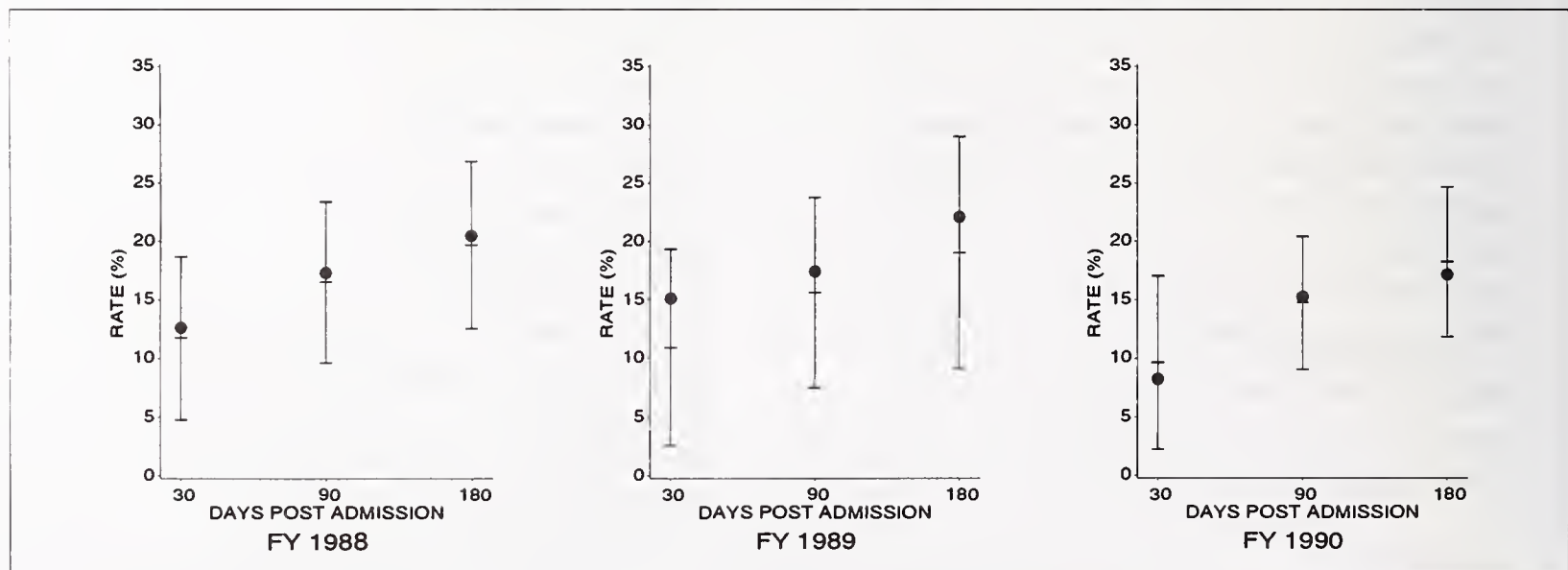
211 SHELLWAY DR  
MOUNT AYR, IA 50854  
Medicare Provider Number: 160048

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 158             | 8.2                 | 9.6  | 3.7   | 15.2    | 14.7 | 2.9   | 17.1     | 18.2 | 3.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1               | 0.0                 | 28.3 | ----- | 0.0     | 31.5 | ----- | 0.0      | 35.6 | ----- |
| Congestive Heart Failure.....              | 5               | 20.0                | 15.8 | ----- | 40.0    | 25.7 | ----- | 40.0     | 32.7 | ----- |
| Pneumonia/Influenza.....                   | 11              | 0.0                 | 12.0 | ----- | 0.0     | 16.3 | ----- | 0.0      | 19.3 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 11.4 | ----- | 25.0    | 19.0 | ----- | 25.0     | 25.2 | ----- |
| Transient Cerebral Ischemia.....           | 1               | 0.0                 | 1.5  | ----- | 0.0     | 3.2  | ----- | 0.0      | 4.7  | ----- |
| Stroke.....                                | 9               | 11.1                | 21.5 | ----- | 11.1    | 28.5 | ----- | 11.1     | 32.3 | ----- |
| Hip Fracture.....                          | 3               | 33.3                | 6.3  | ----- | 33.3    | 11.7 | ----- | 33.3     | 16.0 | ----- |
| Sepsis.....                                | 1               | 0.0                 | 24.9 | ----- | 0.0     | 32.0 | ----- | 0.0      | 36.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 3               | 33.3                | 5.5  | ----- | 33.3    | 10.7 | ----- | 33.3     | 14.9 | ----- |
| Prostatectomy.....                         | 8               | 12.5                | 1.8  | ----- | 12.5    | 4.1  | ----- | 12.5     | 7.0  | ----- |
| Cholecystectomy.....                       | 9               | 0.0                 | 4.6  | ----- | 11.1    | 9.0  | ----- | 11.1     | 12.1 | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 1.0  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# RINGGOLD COUNTY HOSPITAL

Medicare Provider Number: 160048

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.3 years  
Proportion female..... 51.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 55.1 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 22.2 %  
Admitted for emergency..... 67.1 %

### COMORBIDITIES:

Cancer..... 7.6 %  
Chronic cardiovascular disease..... 27.2 %  
Chronic liver disease..... 1.3 %  
Chronic renal disease..... 6.3 %  
Chronic pulmonary disease..... 17.1 %  
Cerebrovascular degeneration..... 1.9 %  
Diabetes mellitus..... 3.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 70.4%  
State ..... 20.7%  
Outside State ..... 8.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 40  
Occupancy Rate ..... 27.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 53.6 %  
Case Mix Index (CMI) ..... 1.0124

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 14  
Licensed Practical Nurses..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# SAMARITAN HOSPITAL SOUTH

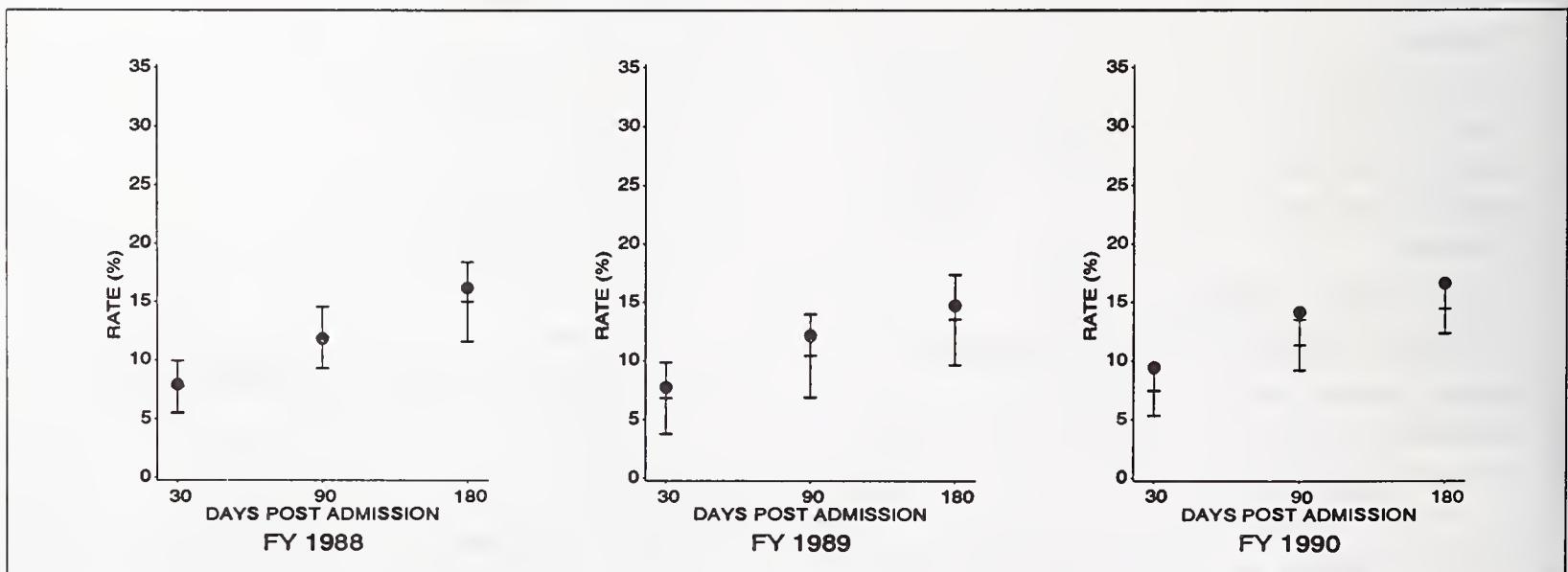
638 S BLUFF BLVD  
CLINTON, IA 52732  
Medicare Provider Number: 160080

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1535            | 9.4                 | 7.4  | 1.1   | 14.1    | 11.3 | 1.1   | 16.6     | 14.4 | 1.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 50              | 30.0                | 22.8 | ----- | 32.0    | 26.3 | ----- | 36.0     | 29.4 | ----- |
| Congestive Heart Failure.....              | 60              | 13.3                | 13.8 | 6.1   | 33.3    | 22.1 | 8.5   | 40.0     | 28.0 | 9.1   |
| Pneumonia/Influenza.....                   | 112             | 17.0                | 12.7 | 4.9   | 22.3    | 17.6 | 6.2   | 24.1     | 21.3 | 5.5   |
| Chronic Obstructive Pulmonary Disease..... | 27              | 22.2                | 6.9  | ----- | 25.9    | 12.0 | ----- | 25.9     | 15.9 | ----- |
| Transient Cerebral Ischemia.....           | 24              | 0.0                 | 1.5  | ----- | 0.0     | 3.5  | ----- | 4.2      | 5.8  | ----- |
| Stroke.....                                | 45              | 28.9                | 19.0 | ----- | 33.3    | 24.8 | ----- | 33.3     | 28.7 | ----- |
| Hip Fracture.....                          | 40              | 12.5                | 6.0  | ----- | 15.0    | 10.6 | ----- | 20.0     | 13.9 | ----- |
| Sepsis.....                                | 17              | 29.4                | 18.4 | ----- | 29.4    | 24.4 | ----- | 29.4     | 28.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 17              | 5.9                 | 2.0  | ----- | 11.8    | 4.5  | ----- | 11.8     | 7.2  | ----- |
| Carotid Endarterectomy.....                | 9               | 0.0                 | 2.3  | ----- | 0.0     | 4.2  | ----- | 0.0      | 6.1  | ----- |
| Hip Replacement/Reconstruction.....        | 26              | 15.4                | 3.4  | ----- | 15.4    | 6.4  | ----- | 19.2     | 8.8  | ----- |
| Open Reduction of Hip Fracture.....        | 19              | 5.3                 | 7.3  | ----- | 10.5    | 12.9 | ----- | 15.8     | 16.6 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 31              | 0.0                 | 2.4  | ----- | 0.0     | 4.6  | ----- | 0.0      | 6.2  | ----- |
| Hysterectomy.....                          | 7               | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 1.0  | ----- |

\* The Standard Deviation (SD) Is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SAMARITAN HOSPITAL SOUTH

Medicare Provider Number: 160080

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 74.8 years  
Proportion female..... 59.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 54.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 53.5 %  
Admitted for emergency..... 44.9 %

### COMORBIDITIES:

Cancer..... 5.0 %  
Chronic cardiovascular disease..... 45.1 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 3.7 %  
Chronic pulmonary disease..... 28.9 %  
Cerebrovascular degeneration..... 3.1 %  
Diabetes mellitus..... 9.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 70.5%  
State ..... 6.9%  
Outside State ..... 22.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.7 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 298  
Occupancy Rate ..... 38.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 40.8 %  
Case Mix Index (CMI) ..... 1.1204

### STAFFING:

Total Number of Physicians..... 57  
Percent of Physicians Board  
Certified Specialists..... 77.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 192  
Licensed Practical Nurses ..... 26

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# SARTORI MEMORIAL HOSPITAL

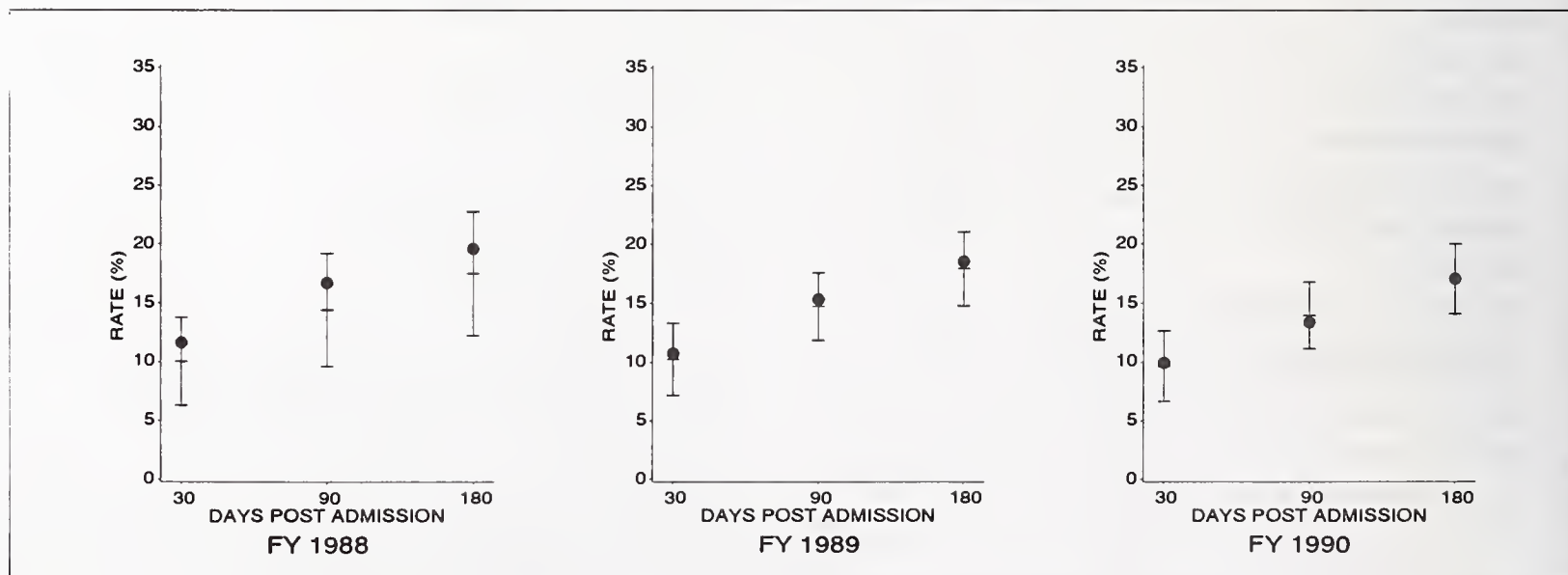
515 COLLEGE STREET  
CEDAR FALLS, IA 50613  
Medicare Provider Number: 160040

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 690             | 9.9                 | 9.6  | 1.5   | 13.3    | 13.9 | 1.4   | 17.0     | 17.0 | 1.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 22              | 36.4                | 31.1 | ----- | 36.4    | 34.8 | ----- | 40.9     | 37.7 | ----- |
| Congestive Heart Failure.....              | 28              | 7.1                 | 17.3 | ----- | 7.1     | 26.8 | ----- | 14.3     | 33.1 | ----- |
| Pneumonia/Influenza.....                   | 39              | 23.1                | 15.6 | ----- | 25.6    | 21.9 | ----- | 28.2     | 25.7 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 16              | 0.0                 | 4.6  | ----- | 6.3     | 8.7  | ----- | 12.5     | 12.0 | ----- |
| Transient Cerebral Ischemia.....           | 18              | 0.0                 | 2.2  | ----- | 5.6     | 5.0  | ----- | 5.6      | 8.0  | ----- |
| Stroke.....                                | 30              | 16.7                | 20.7 | ----- | 30.0    | 26.7 | ----- | 30.0     | 30.3 | ----- |
| Hip Fracture.....                          | 23              | 8.7                 | 7.2  | ----- | 8.7     | 12.5 | ----- | 8.7      | 15.8 | ----- |
| Sepsis.....                                | 8               | 25.0                | 17.5 | ----- | 37.5    | 22.4 | ----- | 50.0     | 25.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 16              | 0.0                 | 3.2  | ----- | 0.0     | 5.6  | ----- | 0.0      | 7.4  | ----- |
| Open Reduction of Hip Fracture.....        | 10              | 10.0                | 6.9  | ----- | 10.0    | 13.0 | ----- | 10.0     | 16.9 | ----- |
| Prostatectomy.....                         | 20              | 0.0                 | 1.1  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.6  | ----- |
| Cholecystectomy.....                       | 8               | 0.0                 | 5.2  | ----- | 0.0     | 10.7 | ----- | 12.5     | 15.0 | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.1  | ----- | 0.0     | 0.2  | ----- | 0.0      | 0.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# SARTORI MEMORIAL HOSPITAL

Medicare Provider Number: 160040

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.8 years  
Proportion female..... 63.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 37.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.6 %  
Admitted for emergency..... 63.0 %

### COMORBIDITIES:

Cancer..... 6.1 %  
Chronic cardiovascular disease..... 30.8 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 3.5 %  
Chronic pulmonary disease..... 16.4 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 4.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 80.1%  
State ..... 17.1%  
Outside State ..... 2.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 101  
Occupancy Rate ..... 35.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 48.6 %  
Case Mix Index (CMI) ..... 1.2240

### STAFFING:

Total Number of Physicians..... 53  
Percent of Physicians Board  
Certified Specialists ..... 79.2 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 65  
Licensed Practical Nurses ..... 19

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# SHELBY COUNTY MYRTUE MEMORIAL HOSPITAL

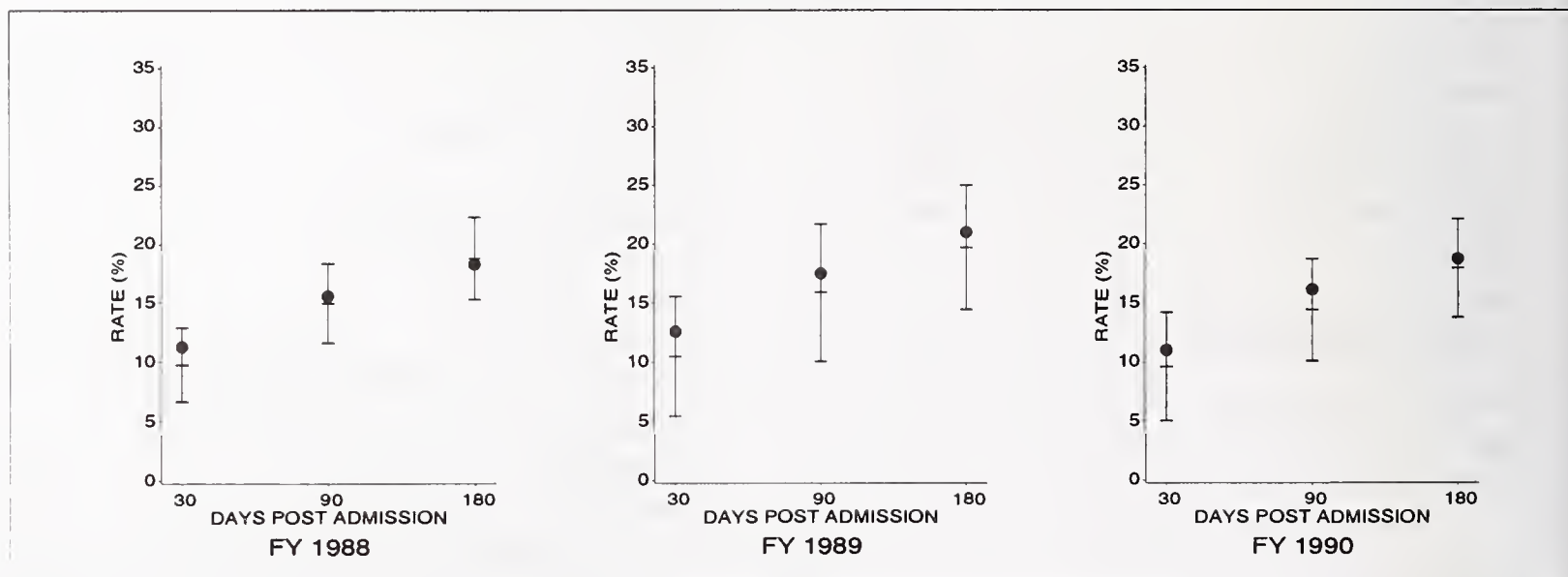
1213 GARFIELD AVENUE  
HARLAN, IA 51537  
Medicare Provider Number: 160031

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 428             | 11.0                | 9.6  | 2.3   | 16.1    | 14.4 | 2.2   | 18.7     | 17.9 | 2.1   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 23              | 21.7                | 24.2 | ----- | 21.7    | 27.9 | ----- | 21.7     | 31.5 | ----- |
| Congestive Heart Failure.....              | 30              | 16.7                | 14.5 | ----- | 26.7    | 23.2 | ----- | 36.7     | 29.4 | ----- |
| Pneumonia/Influenza.....                   | 44              | 18.2                | 16.5 | ----- | 29.5    | 23.1 | ----- | 31.8     | 27.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 17.4 | ----- | 0.0     | 29.2 | ----- | 0.0      | 35.4 | ----- |
| Transient Cerebral Ischemia.....           | 13              | 0.0                 | 1.0  | ----- | 0.0     | 2.6  | ----- | 0.0      | 4.5  | ----- |
| Stroke.....                                | 30              | 26.7                | 17.6 | ----- | 33.3    | 24.4 | ----- | 33.3     | 28.4 | ----- |
| Hip Fracture.....                          | 6               | 0.0                 | 3.9  | ----- | 0.0     | 7.0  | ----- | 0.0      | 9.4  | ----- |
| Sepsis.....                                | 8               | 0.0                 | 22.7 | ----- | 0.0     | 29.0 | ----- | 0.0      | 32.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 8.1  | ----- | 0.0     | 17.1 | ----- | 0.0      | 26.4 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 2               | 0.0                 | 9.3  | ----- | 0.0     | 19.7 | ----- | 0.0      | 28.0 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 3.8  | ----- | 0.0     | 6.5  | ----- | 0.0      | 8.7  | ----- |
| Prostatectomy.....                         | 5               | 0.0                 | 0.6  | ----- | 0.0     | 1.6  | ----- | 0.0      | 2.9  | ----- |
| Cholecystectomy.....                       | 9               | 11.1                | 1.1  | ----- | 11.1    | 2.3  | ----- | 11.1     | 3.3  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SHELBY COUNTY MYRTUE MEMORIAL HOSPITAL

Medicare Provider Number: 160031

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.1 years  
Proportion female..... 56.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.1 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 37.1 %  
Admitted for emergency..... 0.7 %

### COMORBIDITIES:

Cancer..... 4.4 %  
Chronic cardiovascular disease..... 48.8 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 2.6 %  
Chronic pulmonary disease..... 15.2 %  
Cerebrovascular degeneration..... 2.1 %  
Diabetes mellitus..... 9.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 70.1 %  
State ..... 27.6 %  
Outside State ..... 2.3 %  
Total ..... 100.0 %

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 52  
Occupancy Rate ..... 50.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 61.9 %  
Case Mix Index (CMI) ..... 1.0867

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 35  
Licensed Practical Nurses ..... 11

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# SHENANDOAH MEMORIAL HOSPITAL

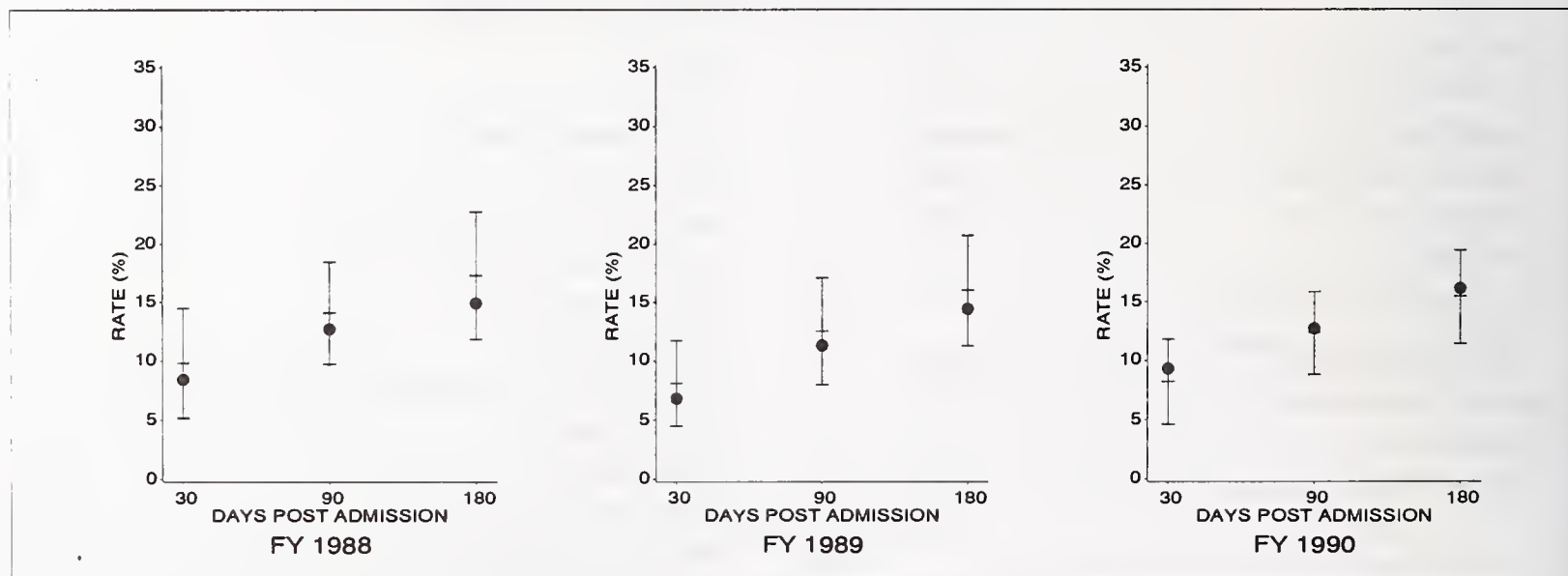
300 PERSHING AVE  
SHENANDOAH, IA 51601  
Medicare Provider Number: 160092

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|--------------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                    | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                    | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 378                | 9.3                 | 8.2  | 1.8  | 12.7    | 12.3 | 1.8  | 16.1     | 15.4 | 2.0  |
| CONDITIONS:                                |                    |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 6                  | 16.7                | 27.4 | ---- | 33.3    | 30.1 | ---- | 33.3     | 32.9 | ---- |
| Congestive Heart Failure.....              | 13                 | 15.4                | 12.8 | ---- | 23.1    | 19.2 | ---- | 23.1     | 24.7 | ---- |
| Pneumonia/Influenza.....                   | 31                 | 12.9                | 16.2 | ---- | 16.1    | 22.3 | ---- | 16.1     | 26.3 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 1                  | 0.0                 | 2.0  | ---- | 0.0     | 3.9  | ---- | 0.0      | 5.7  | ---- |
| Transient Cerebral Ischemia.....           | 6                  | 0.0                 | 1.9  | ---- | 0.0     | 4.4  | ---- | 0.0      | 7.5  | ---- |
| Stroke.....                                | 22                 | 45.5                | 20.5 | ---- | 50.0    | 27.5 | ---- | 50.0     | 31.8 | ---- |
| Hip Fracture.....                          | 10                 | 10.0                | 10.5 | ---- | 30.0    | 17.4 | ---- | 30.0     | 22.0 | ---- |
| Sepsis.....                                | 7                  | 28.6                | 23.7 | ---- | 28.6    | 31.0 | ---- | 42.9     | 35.2 | ---- |
| PROCEDURES:                                |                    |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0                  |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 1                  | 0.0                 | 1.6  | ---- | 0.0     | 3.2  | ---- | 0.0      | 5.2  | ---- |
| Carotid Endarterectomy.....                | 0                  |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 4                  | 0.0                 | 8.1  | ---- | 50.0    | 14.4 | ---- | 50.0     | 18.9 | ---- |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |      |         |      |      |          |      |      |
| Prostatectomy.....                         | 12                 | 0.0                 | 0.6  | ---- | 0.0     | 1.2  | ---- | 0.0      | 2.1  | ---- |
| Cholecystectomy.....                       | 6                  | 0.0                 | 1.6  | ---- | 0.0     | 3.1  | ---- | 0.0      | 4.2  | ---- |
| Hysterectomy.....                          | 1                  | 0.0                 | 15.3 | ---- | 0.0     | 32.9 | ---- | 0.0      | 45.7 | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SHENANDOAH MEMORIAL HOSPITAL

Medicare Provider Number: 160092

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.4 years  
Proportion female..... 63.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 19.0 %  
Transferred from skilled nursing facility..... 1.1 %  
Admitted for elective procedure..... 11.1 %  
Admitted for emergency..... 8.7 %

### COMORBIDITIES:

Cancer..... 4.0 %  
Chronic cardiovascular disease..... 31.9 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 16.1 %  
Cerebrovascular degeneration..... 4.5 %  
Diabetes mellitus..... 8.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 76.5%  
State ..... 14.9%  
Outside State ..... 8.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1989

### PROFILE:

Total Beds ..... 106  
Occupancy Rate ..... 71.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 46.8 %  
Case Mix Index (CMI) ..... 1.0036

### STAFFING:

Total Number of Physicians..... 11  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 31  
Licensed Practical Nurses ..... 18

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation ..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# **SIOUX VALLEY MEMORIAL HOSPITAL**

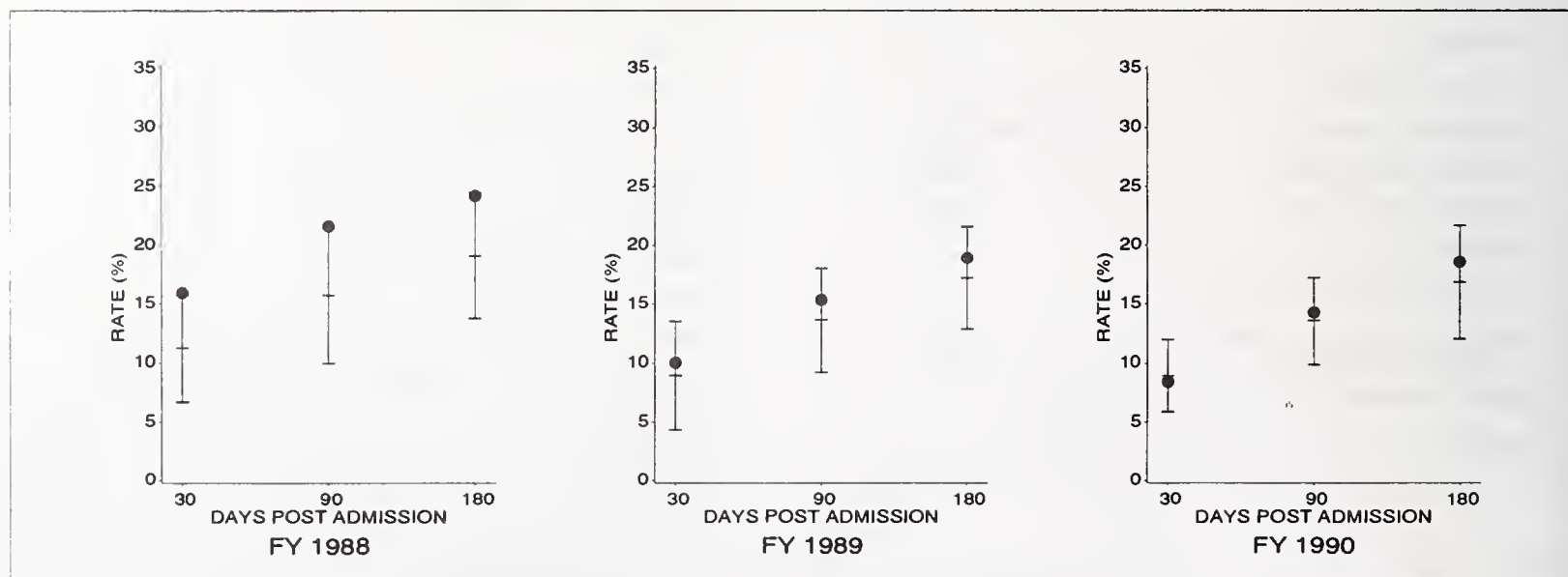
300 SIOUX VALLEY DR  
CHEROKEE, IA 51012  
Medicare Provider Number: 160003

## **FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 395             | 8.4                 | 8.9  | 1.5   | 14.2    | 13.5 | 1.8   | 18.5     | 16.8 | 2.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 16              | 56.3                | 28.4 | ----- | 62.5    | 31.9 | ----- | 62.5     | 34.4 | ----- |
| Congestive Heart Failure.....              | 19              | 5.3                 | 16.5 | ----- | 10.5    | 25.6 | ----- | 21.1     | 31.7 | ----- |
| Pneumonia/Influenza.....                   | 29              | 6.9                 | 15.2 | ----- | 13.8    | 21.5 | ----- | 24.1     | 25.4 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 6               | 16.7                | 6.3  | ----- | 33.3    | 12.2 | ----- | 33.3     | 16.5 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.4  | ----- | 0.0     | 3.1  | ----- | 0.0      | 5.2  | ----- |
| Stroke.....                                | 18              | 27.8                | 20.5 | ----- | 33.3    | 27.1 | ----- | 38.9     | 31.2 | ----- |
| Hip Fracture.....                          | 14              | 0.0                 | 5.5  | ----- | 0.0     | 10.2 | ----- | 7.1      | 13.9 | ----- |
| Sepsis.....                                | 11              | 45.5                | 22.7 | ----- | 54.5    | 31.1 | ----- | 54.5     | 36.2 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 9               | 0.0                 | 5.2  | ----- | 0.0     | 9.9  | ----- | 11.1     | 13.8 | ----- |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 14              | 0.0                 | 2.0  | ----- | 0.0     | 3.5  | ----- | 0.0      | 4.7  | ----- |
| Hysterectomy.....                          | 3               | 0.0                 | 1.6  | ----- | 0.0     | 2.8  | ----- | 0.0      | 4.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### **OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**





# **SIOUX VALLEY MEMORIAL HOSPITAL**

Medicare Provider Number: 160003

## **FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

### **DEMOGRAPHICS:**

Average age at admission..... 77.6 years  
Proportion female..... 57.2 %

### **ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 99.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 0.0 %

### **COMORBIDITIES:**

Cancer..... 7.1 %  
Chronic cardiovascular disease..... 44.8 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 1.3 %  
Chronic pulmonary disease..... 15.4 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 7.6 %

## **ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

### **ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 74.9%  
State ..... 22.6%  
Outside State ..... 2.5%  
Total ..... 100.0%

### **MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 5.4 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## **HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### **PROFILE:**

Total Beds ..... 67  
Occupancy Rate ..... 34.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 37.9 %  
Case Mix Index (CMI) ..... 1.0418

### **STAFFING:**

Total Number of Physicians..... 9  
Percent of Physicians Board  
Certified Specialists ..... 44.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 37  
Licensed Practical Nurses ..... 10

### **SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### **OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# SKIFF MEDICAL CENTER

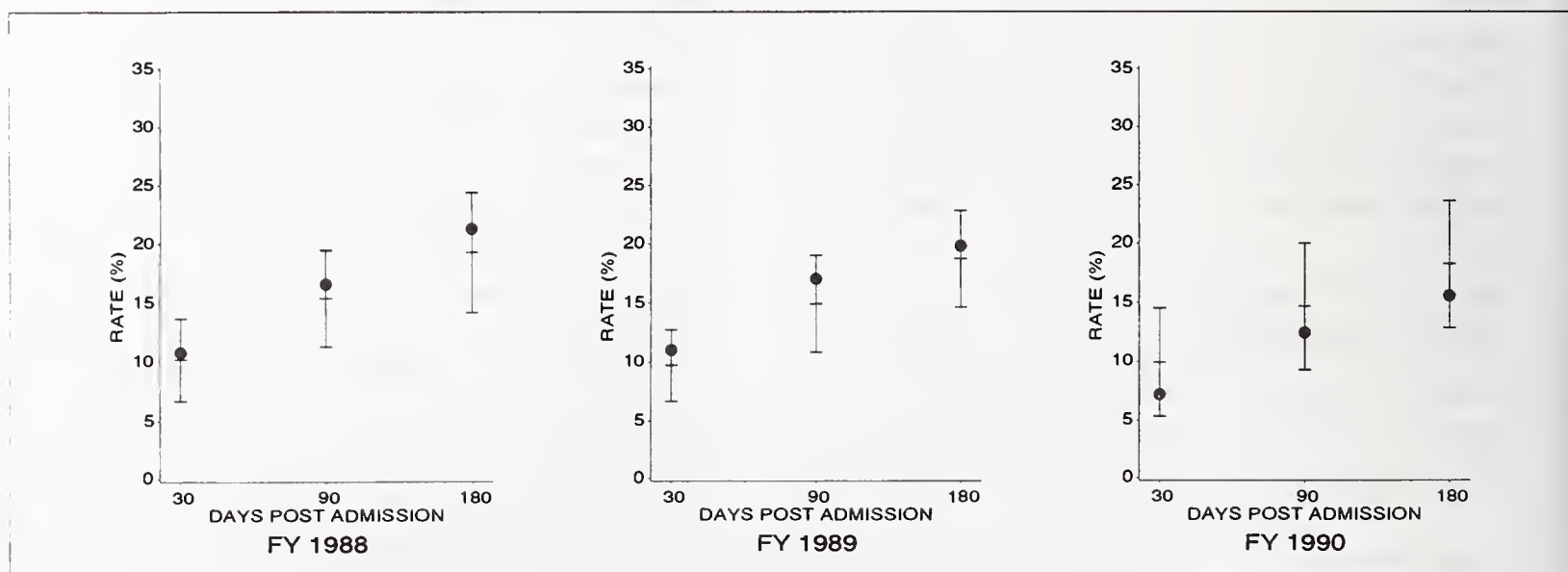
204 N 4TH AVE E  
NEWTON, IA 50208  
Medicare Provider Number: 160032

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 498             | 7.2                 | 9.9  | 2.3   | 12.4    | 14.6 | 2.7   | 15.5     | 18.2 | 2.7   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 26              | 30.8                | 32.3 | ----- | 38.5    | 36.2 | ----- | 42.3     | 39.5 | ----- |
| Congestive Heart Failure.....              | 40              | 15.0                | 15.9 | ----- | 27.5    | 24.4 | ----- | 40.0     | 30.6 | ----- |
| Pneumonia/Influenza.....                   | 43              | 9.3                 | 13.7 | ----- | 14.0    | 19.4 | ----- | 14.0     | 23.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 17              | 5.9                 | 5.0  | ----- | 5.9     | 9.4  | ----- | 5.9      | 13.1 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 0.0                 | 1.6  | ----- | 0.0     | 3.9  | ----- | 0.0      | 6.6  | ----- |
| Stroke.....                                | 29              | 17.2                | 17.1 | ----- | 20.7    | 23.1 | ----- | 20.7     | 27.5 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 9               | 0.0                 | 20.7 | ----- | 11.1    | 28.1 | ----- | 11.1     | 33.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 1.7  | ----- | 0.0     | 3.9  | ----- | 0.0      | 6.8  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 19              | 0.0                 | 0.6  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.5  | ----- |
| Cholecystectomy.....                       | 4               | 0.0                 | 4.6  | ----- | 0.0     | 8.0  | ----- | 0.0      | 10.2 | ----- |
| Hysterectomy.....                          | 5               | 0.0                 | 0.7  | ----- | 0.0     | 1.5  | ----- | 0.0      | 2.4  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SKIFF MEDICAL CENTER

Medicare Provider Number: 160032

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 77.2 years

Proportion female..... 56.8 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 17.3 %

Transferred from skilled nursing facility..... 0.2 %

Admitted for elective procedure..... 6.4 %

Admitted for emergency..... 10.2 %

### COMORBIDITIES:

Cancer..... 5.2 %

Chronic cardiovascular disease..... 33.5 %

Chronic liver disease..... 0.6 %

Chronic renal disease..... 2.0 %

Chronic pulmonary disease..... 16.7 %

Cerebrovascular degeneration..... 7.8 %

Diabetes mellitus..... 6.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 94.7%

State ..... 4.1%

Outside State ..... 1.2%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.6 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 61

Occupancy Rate ..... 62.0 %

Ownership/Control..... Local Government

Medicare Discharges ..... 51.4 %

Case Mix Index (CMI) ..... 1.0016

### STAFFING:

Total Number of Physicians..... 12

Percent of Physicians Board  
Certified Specialists..... 66.7 %

Medical Residents/Interns ..... 0

Registered Nurses..... 54

Licensed Practical Nurses ..... 10

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... Yes

Medical/Surgical Intensive Care ..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... Yes

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# SPENCER MUNICIPAL HOSPITAL

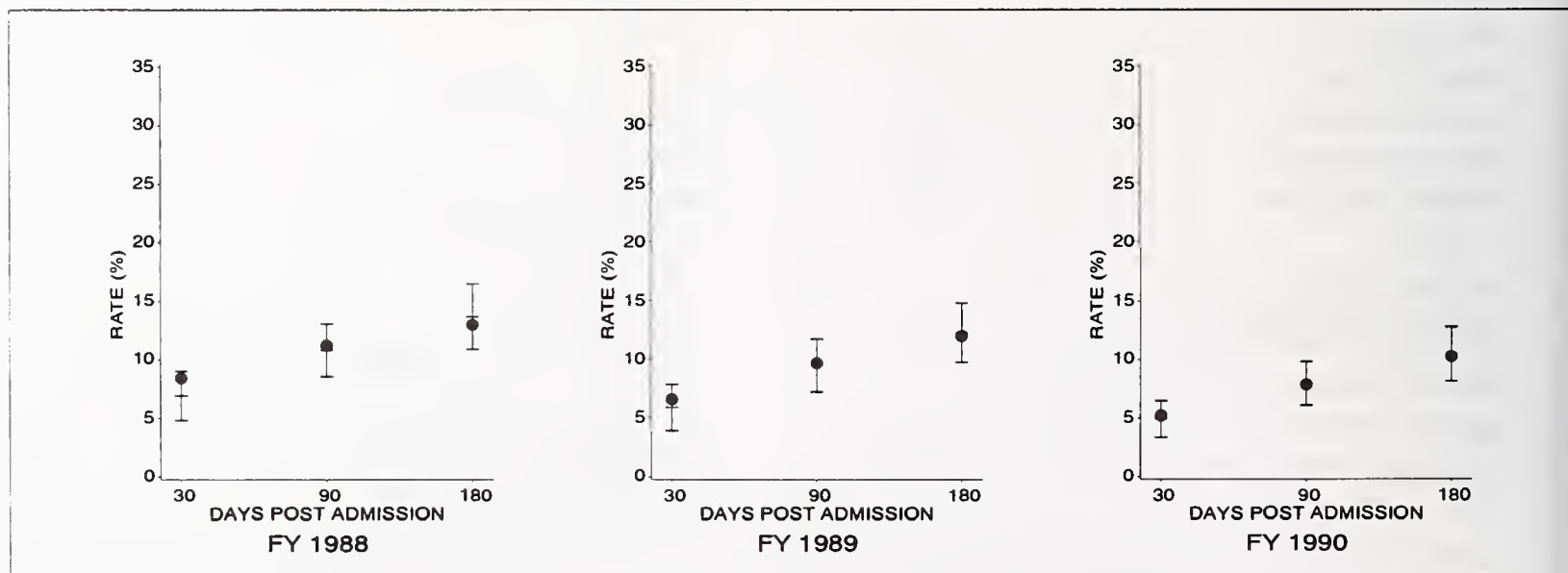
114 E 12TH ST  
SPENCER, IA 51301  
Medicare Provider Number: 160112

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 854             | 5.2                 | 4.9  | 0.8   | 7.8     | 7.9  | 0.9   | 10.2     | 10.4 | 1.2   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 20              | 35.0                | 24.3 | ----- | 40.0    | 27.6 | ----- | 40.0     | 30.8 | ----- |
| Congestive Heart Failure.....              | 40              | 17.5                | 14.2 | ----- | 27.5    | 22.9 | ----- | 32.5     | 29.5 | ----- |
| Pneumonia/Influenza.....                   | 34              | 17.6                | 14.2 | ----- | 20.6    | 20.2 | ----- | 23.5     | 23.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 8               | 0.0                 | 4.9  | ----- | 12.5    | 9.5  | ----- | 25.0     | 13.0 | ----- |
| Transient Cerebral Ischemia.....           | 5               | 0.0                 | 1.2  | ----- | 20.0    | 2.6  | ----- | 20.0     | 4.4  | ----- |
| Stroke.....                                | 13              | 15.4                | 18.1 | ----- | 30.8    | 25.8 | ----- | 30.8     | 30.2 | ----- |
| Hip Fracture.....                          | 65              | 4.6                 | 6.3  | 3.7   | 10.8    | 11.5 | 5.1   | 13.8     | 15.4 | 5.9   |
| Sepsis.....                                | 10              | 20.0                | 18.1 | ----- | 20.0    | 21.9 | ----- | 20.0     | 24.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 63              | 3.2                 | 2.5  | 2.3   | 4.8     | 4.8  | 3.1   | 6.3      | 6.7  | 4.2   |
| Open Reduction of Hip Fracture.....        | 11              | 9.1                 | 4.5  | ----- | 18.2    | 8.1  | ----- | 18.2     | 11.0 | ----- |
| Prostatectomy.....                         | 68              | 0.0                 | 0.6  | 1.8   | 1.5     | 1.5  | 2.1   | 1.5      | 2.7  | 2.8   |
| Cholecystectomy.....                       | 14              | 0.0                 | 1.0  | ----- | 0.0     | 1.8  | ----- | 0.0      | 2.5  | ----- |
| Hysterectomy.....                          | 8               | 0.0                 | 0.1  | ----- | 0.0     | 0.4  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# SPENCER MUNICIPAL HOSPITAL

Medicare Provider Number: 160112

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.4 years  
Proportion female..... 52.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 98.7 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 32.4 %  
Admitted for emergency..... 0.7 %

### COMORBIDITIES:

Cancer..... 4.3 %  
Chronic cardiovascular disease..... 24.4 %  
Chronic liver disease..... 0.1 %  
Chronic renal disease..... 0.9 %  
Chronic pulmonary disease..... 9.7 %  
Cerebrovascular degeneration..... 1.9 %  
Diabetes mellitus..... 6.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 54.0%  
State ..... 44.0%  
Outside State ..... 2.0%  
-----  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 96  
Occupancy Rate ..... 51.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 35.4 %  
Case Mix Index (CMI) ..... 1.2497

### STAFFING:

Total Number of Physicians..... 27  
Percent of Physicians Board  
Certified Specialists..... 92.6 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 60  
Licensed Practical Nurses..... 7

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST ANTHONY REGIONAL HOSPITAL

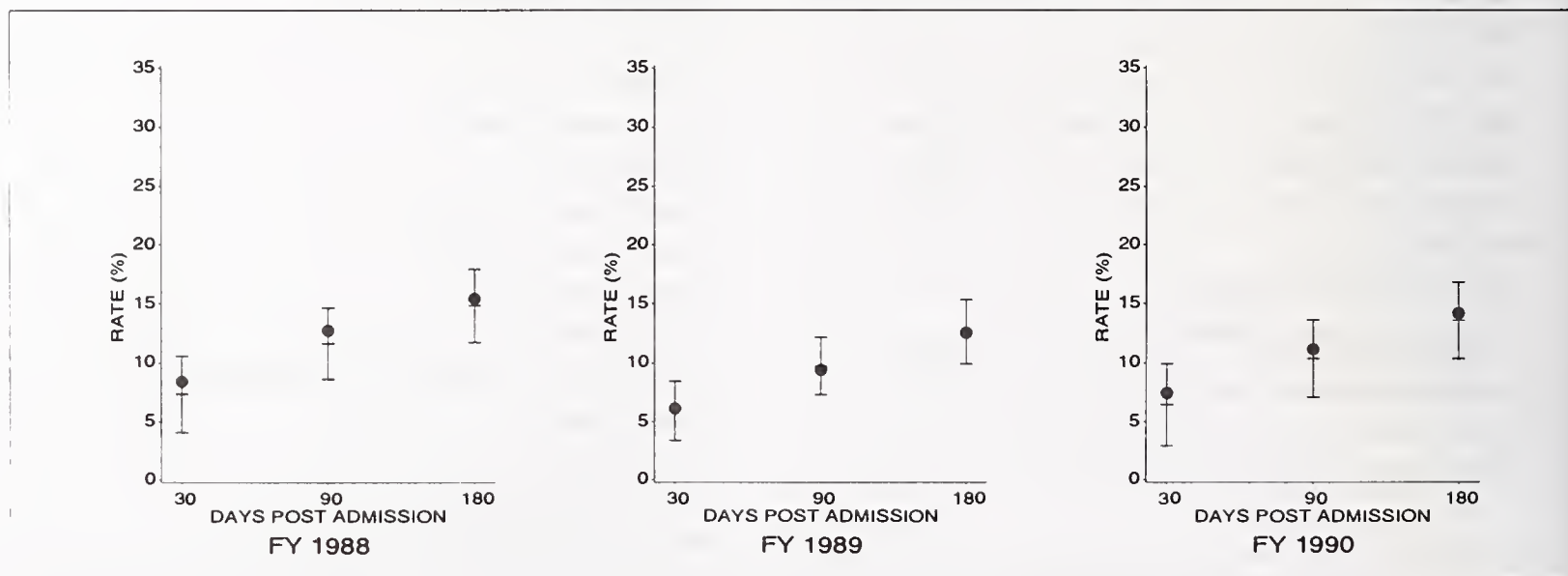
S CLARK ST  
CARROLL, IA 51401  
Medicare Provider Number: 160005

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 552             | 7.4                 | 6.4  | 1.8   | 11.1    | 10.3 | 1.6   | 14.1     | 13.5 | 1.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 15              | 33.3                | 24.7 | ----- | 33.3    | 27.8 | ----- | 33.3     | 31.2 | ----- |
| Congestive Heart Failure.....              | 29              | 17.2                | 14.3 | ----- | 31.0    | 22.8 | ----- | 41.4     | 29.0 | ----- |
| Pneumonia/Influenza.....                   | 39              | 12.8                | 13.0 | ----- | 15.4    | 18.3 | ----- | 17.9     | 21.8 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 10              | 10.0                | 5.6  | ----- | 20.0    | 10.6 | ----- | 30.0     | 14.8 | ----- |
| Transient Cerebral Ischemia.....           | 16              | 6.3                 | 1.5  | ----- | 6.3     | 3.7  | ----- | 12.5     | 6.4  | ----- |
| Stroke.....                                | 11              | 18.2                | 15.1 | ----- | 27.3    | 21.2 | ----- | 27.3     | 25.1 | ----- |
| Hip Fracture.....                          | 15              | 0.0                 | 5.1  | ----- | 0.0     | 9.6  | ----- | 0.0      | 12.9 | ----- |
| Sepsis.....                                | 3               | 0.0                 | 13.6 | ----- | 0.0     | 19.2 | ----- | 33.3     | 23.4 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 2               | 0.0                 | 2.9  | ----- | 0.0     | 4.7  | ----- | 0.0      | 6.6  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 10              | 0.0                 | 4.5  | ----- | 0.0     | 9.0  | ----- | 0.0      | 12.5 | ----- |
| Open Reduction of Hip Fracture.....        | 4               | 0.0                 | 7.0  | ----- | 0.0     | 12.7 | ----- | 0.0      | 16.5 | ----- |
| Prostatectomy.....                         | 38              | 2.6                 | 1.4  | ----- | 2.6     | 3.3  | ----- | 2.6      | 5.6  | ----- |
| Cholecystectomy.....                       | 19              | 10.5                | 2.6  | ----- | 15.8    | 4.8  | ----- | 15.8     | 6.4  | ----- |
| Hysterectomy.....                          | 9               | 0.0                 | 0.8  | ----- | 0.0     | 1.8  | ----- | 11.1     | 3.1  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# ST ANTHONY REGIONAL HOSPITAL

Medicare Provider Number: 160005

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.2 years  
Proportion female..... 52.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.5 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 22.5 %  
Admitted for emergency..... 7.4 %

### COMORBIDITIES:

Cancer..... 6.9 %  
Chronic cardiovascular disease..... 38.0 %  
Chronic liver disease..... 0.7 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 20.5 %  
Cerebrovascular degeneration..... 3.6 %  
Diabetes mellitus..... 3.3 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.0%  
State ..... 14.8%  
Outside State ..... 2.2%  
-----  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.6 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 132  
Occupancy Rate ..... 80.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 38.7 %  
Case Mix Index (CMI) ..... 1.1207

### STAFFING:

Total Number of Physicians..... 17  
Percent of Physicians Board  
Certified Specialists..... 64.7 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 28  
Licensed Practical Nurses..... 13

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST JOSEPH COMMUNITY HOSPITAL

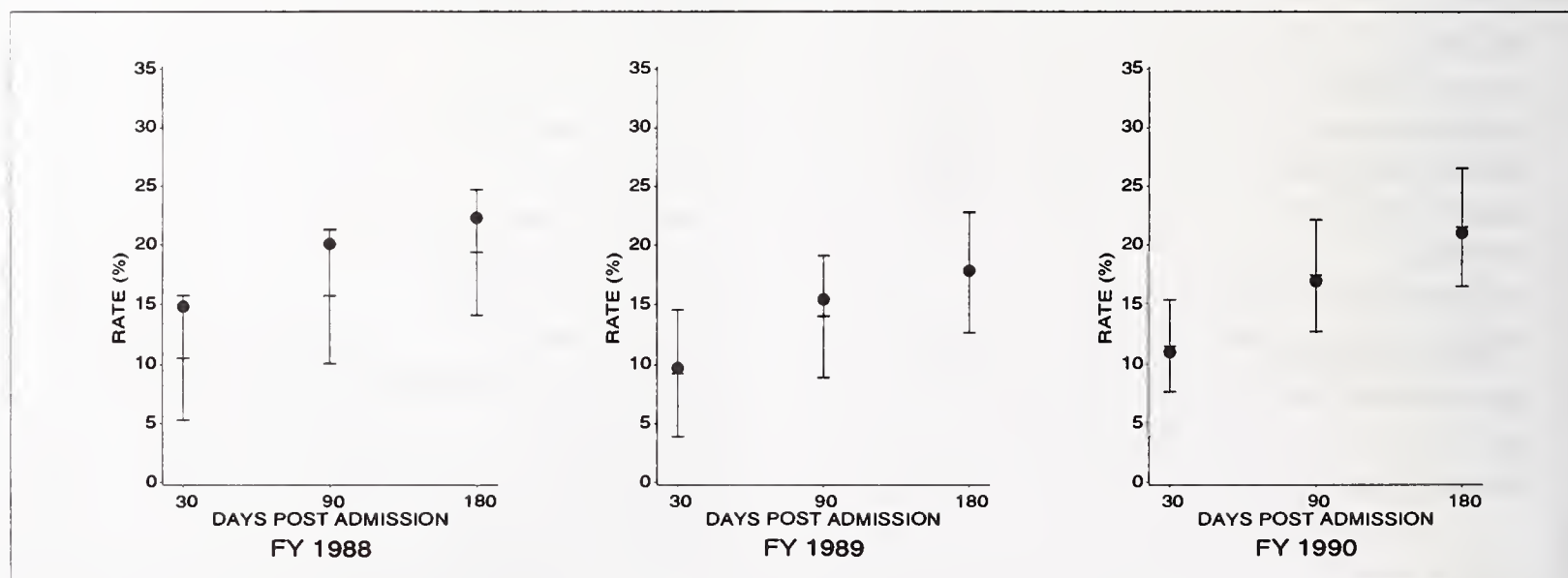
308 N MAPLE AVE  
NEW HAMPTON, IA 50659  
Medicare Provider Number: 160027

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 290             | 11.0                | 11.5 | 1.9   | 16.9    | 17.4 | 2.4   | 21.0     | 21.5 | 2.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 11              | 45.5                | 38.8 | ----- | 45.5    | 45.4 | ----- | 54.5     | 49.6 | ----- |
| Congestive Heart Failure.....              | 18              | 16.7                | 20.2 | ----- | 22.2    | 31.5 | ----- | 27.8     | 38.3 | ----- |
| Pneumonia/Influenza.....                   | 24              | 29.2                | 16.1 | ----- | 29.2    | 23.2 | ----- | 29.2     | 27.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9               | 11.1                | 6.8  | ----- | 11.1    | 12.3 | ----- | 11.1     | 16.2 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.7  | ----- | 0.0     | 4.2  | ----- | 0.0      | 7.3  | ----- |
| Stroke.....                                | 9               | 22.2                | 26.4 | ----- | 33.3    | 35.3 | ----- | 33.3     | 39.9 | ----- |
| Hip Fracture.....                          | 6               | 0.0                 | 5.0  | ----- | 0.0     | 9.0  | ----- | 0.0      | 11.8 | ----- |
| Sepsis.....                                | 13              | 15.4                | 23.2 | ----- | 15.4    | 32.6 | ----- | 23.1     | 38.3 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 1               | 0.0                 | 0.9  | ----- | 0.0     | 1.8  | ----- | 0.0      | 2.9  | ----- |
| Hip Replacement/Reconstruction.....        | 3               | 0.0                 | 5.0  | ----- | 0.0     | 8.7  | ----- | 0.0      | 11.0 | ----- |
| Open Reduction of Hip Fracture.....        | 3               | 0.0                 | 4.2  | ----- | 0.0     | 8.4  | ----- | 0.0      | 11.6 | ----- |
| Prostatectomy.....                         | 6               | 0.0                 | 0.4  | ----- | 0.0     | 0.9  | ----- | 0.0      | 1.7  | ----- |
| Cholecystectomy.....                       | 4               | 0.0                 | 0.6  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.8  | ----- |
| Hysterectomy.....                          | 2               | 0.0                 | 0.6  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ST JOSEPH COMMUNITY HOSPITAL

Medicare Provider Number: 160027

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.0 years  
Proportion female..... 54.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 39.0 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 13.4 %  
Admitted for emergency..... 20.7 %

### COMORBIDITIES:

Cancer..... 9.3 %  
Chronic cardiovascular disease..... 33.1 %  
Chronic liver disease..... 0.3 %  
Chronic renal disease..... 7.6 %  
Chronic pulmonary disease..... 15.9 %  
Cerebrovascular degeneration..... 3.8 %  
Diabetes mellitus..... 6.6 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 78.8%  
State ..... 19.2%  
Outside State ..... 2.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.2 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 39  
Occupancy Rate ..... (Not Available)  
Ownership/Control..... Church  
Medicare Discharges ..... (Not Available)  
Case Mix Index (CMI) ..... 1.1019

### STAFFING:

Total Number of Physicians..... 25  
Percent of Physicians Board  
Certified Specialists..... 96.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 32  
Licensed Practical Nurses..... 2

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# ST JOSEPH MERCY HOSPITAL

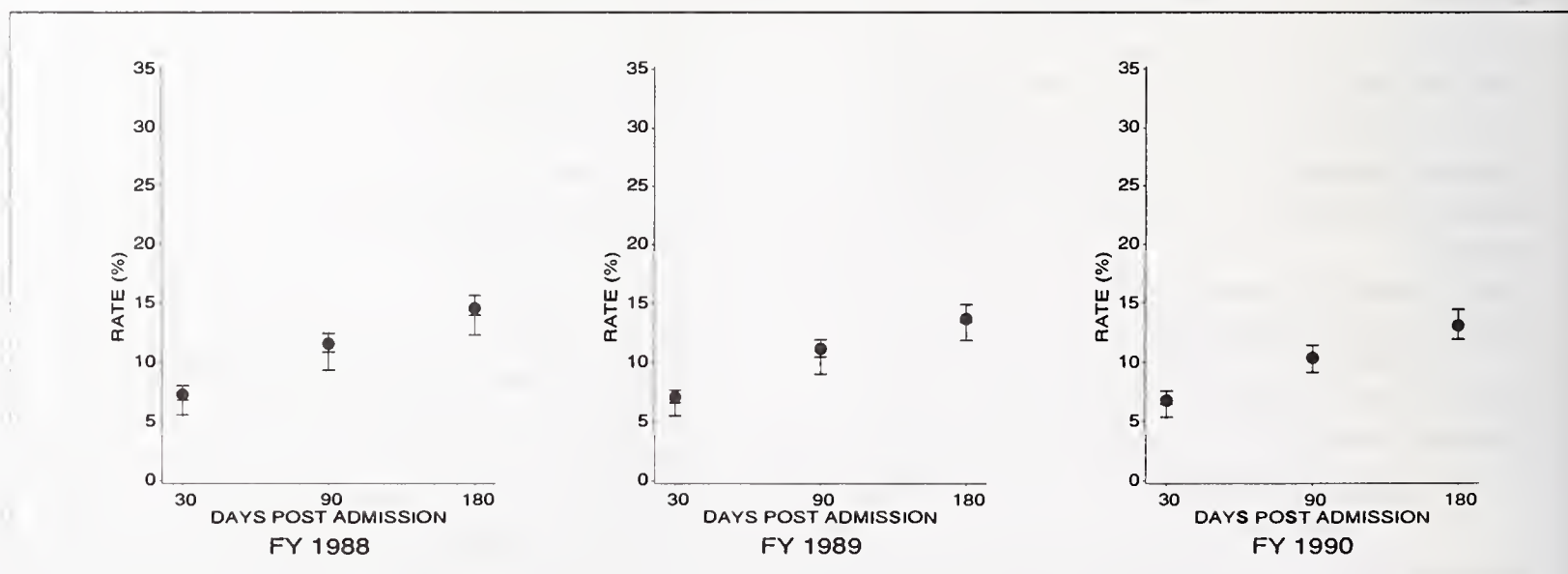
84 BEAUMONT DRIVE  
MASON CITY, IA 50401  
Medicare Provider Number: 160064

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2915            | 6.8                 | 6.5  | 0.6   | 10.4    | 10.3 | 0.6   | 13.1     | 13.2 | 0.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 95              | 18.9                | 21.8 | 4.9   | 22.1    | 25.3 | 5.8   | 24.2     | 27.9 | 5.8   |
| Congestive Heart Failure.....              | 113             | 15.0                | 15.3 | 3.4   | 24.8    | 24.4 | 4.3   | 29.2     | 30.7 | 4.6   |
| Pneumonia/Influenza.....                   | 112             | 20.5                | 12.8 | 4.9   | 24.1    | 17.7 | 5.3   | 26.8     | 21.4 | 6.6   |
| Chronic Obstructive Pulmonary Disease..... | 40              | 5.0                 | 6.6  | ----- | 7.5     | 11.9 | ----- | 20.0     | 16.0 | ----- |
| Transient Cerebral Ischemia.....           | 47              | 0.0                 | 1.6  | ----- | 4.3     | 3.6  | ----- | 4.3      | 5.9  | ----- |
| Stroke.....                                | 85              | 20.0                | 19.3 | 4.4   | 25.9    | 26.0 | 4.9   | 29.4     | 30.0 | 5.0   |
| Hip Fracture.....                          | 112             | 8.0                 | 5.9  | 2.9   | 9.8     | 10.6 | 3.2   | 13.4     | 14.0 | 3.6   |
| Sepsis.....                                | 20              | 10.0                | 19.7 | ----- | 20.0    | 26.1 | ----- | 20.0     | 30.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 29              | 0.0                 | 3.5  | ----- | 0.0     | 4.4  | ----- | 0.0      | 5.3  | ----- |
| Coronary Artery Bypass Graft.....          | 80              | 2.5                 | 4.8  | 3.3   | 5.0     | 7.0  | 3.5   | 7.5      | 8.0  | 3.5   |
| Initial Pacemaker Insertion.....           | 27              | 3.7                 | 4.1  | ----- | 7.4     | 7.6  | ----- | 11.1     | 10.6 | ----- |
| Carotid Endarterectomy.....                | 9               | 0.0                 | 1.1  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.3  | ----- |
| Hip Replacement/Reconstruction.....        | 109             | 5.5                 | 2.3  | 2.7   | 6.4     | 4.3  | 2.7   | 6.4      | 5.9  | 3.3   |
| Open Reduction of Hip Fracture.....        | 35              | 5.7                 | 5.4  | ----- | 5.7     | 10.4 | ----- | 14.3     | 14.2 | ----- |
| Prostatectomy.....                         | 111             | 0.9                 | 0.7  | 0.8   | 1.8     | 1.6  | 1.4   | 2.7      | 2.8  | 2.1   |
| Cholecystectomy.....                       | 74              | 4.1                 | 2.3  | 2.6   | 4.1     | 4.6  | 2.7   | 4.1      | 6.5  | 3.6   |
| Hysterectomy.....                          | 34              | 0.0                 | 0.6  | ----- | 0.0     | 1.4  | ----- | 0.0      | 2.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# ST JOSEPH MERCY HOSPITAL

Medicare Provider Number: 160064

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.2 years  
Proportion female..... 55.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 86.7 %  
Transferred from skilled nursing facility..... 1.0 %  
Admitted for elective procedure..... 30.1 %  
Admitted for emergency..... 3.7 %

### COMORBIDITIES:

Cancer..... 7.6 %  
Chronic cardiovascular disease..... 34.6 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 1.4 %  
Chronic pulmonary disease..... 11.2 %  
Cerebrovascular degeneration..... 2.6 %  
Diabetes mellitus..... 5.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 41.6%  
State ..... 55.6%  
Outside State ..... 2.8%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.0 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 263  
Occupancy Rate ..... 70.0 %  
Ownership/Control..... Church  
Medicare Discharges ..... 40.5 %  
Case Mix Index (CMI) ..... 1.4492

### STAFFING:

Total Number of Physicians..... 129  
Percent of Physicians Board  
Certified Specialists ..... 76.7 %  
Medical Residents/Interns ..... 16  
Registered Nurses..... 274  
Licensed Practical Nurses ..... 61

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST JOSEPHS MERCY HOSPITAL

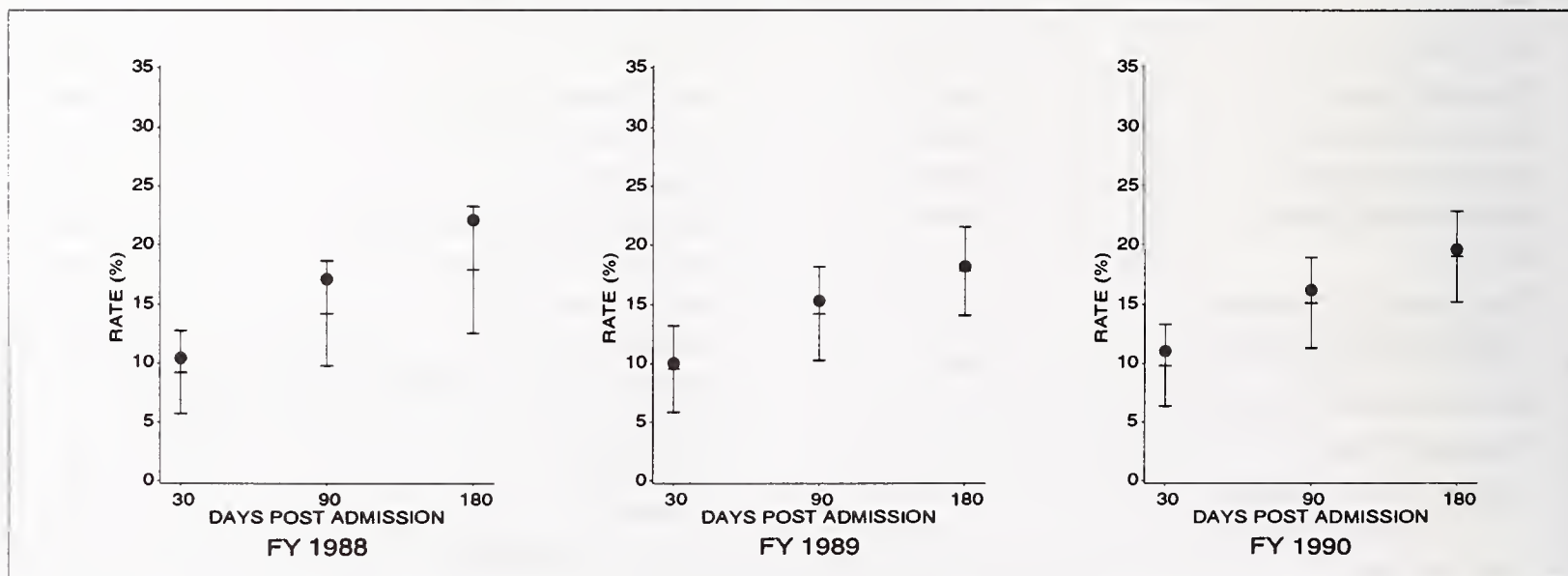
ROUTE 3  
CENTERVILLE, IA 52544  
Medicare Provider Number: 160020

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 445             | 11.0                | 9.8  | 1.7  | 16.2    | 15.1 | 1.9  | 19.6     | 19.0 | 1.9  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 12              | 33.3                | 30.8 | ---- | 33.3    | 34.0 | ---- | 41.7     | 36.6 | ---- |
| Congestive Heart Failure.....              | 27              | 18.5                | 16.4 | ---- | 40.7    | 25.9 | ---- | 44.4     | 32.7 | ---- |
| Pneumonia/Influenza.....                   | 27              | 14.8                | 16.5 | ---- | 25.9    | 23.6 | ---- | 29.6     | 27.8 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 22              | 4.5                 | 6.7  | ---- | 9.1     | 12.0 | ---- | 9.1      | 16.1 | ---- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 3.4  | ---- | 0.0     | 6.9  | ---- | 0.0      | 11.4 | ---- |
| Stroke.....                                | 26              | 26.9                | 24.1 | ---- | 38.5    | 31.7 | ---- | 53.8     | 36.3 | ---- |
| Hip Fracture.....                          | 12              | 0.0                 | 5.5  | ---- | 0.0     | 9.8  | ---- | 0.0      | 13.1 | ---- |
| Sepsis.....                                | 3               | 0.0                 | 7.1  | ---- | 33.3    | 10.0 | ---- | 33.3     | 13.1 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 2               | 0.0                 | 4.2  | ---- | 0.0     | 8.3  | ---- | 0.0      | 11.3 | ---- |
| Open Reduction of Hip Fracture.....        | 9               | 0.0                 | 5.4  | ---- | 0.0     | 9.8  | ---- | 0.0      | 13.3 | ---- |
| Prostatectomy.....                         | 10              | 0.0                 | 0.9  | ---- | 0.0     | 1.9  | ---- | 0.0      | 3.2  | ---- |
| Cholecystectomy.....                       | 8               | 0.0                 | 5.6  | ---- | 0.0     | 10.3 | ---- | 0.0      | 13.6 | ---- |
| Hysterectomy.....                          | 2               | 0.0                 | 2.7  | ---- | 0.0     | 5.3  | ---- | 0.0      | 8.2  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# ST JOSEPHS MERCY HOSPITAL

Medicare Provider Number: 160020

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.5 years

Proportion female..... 59.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 47.1 %

Transferred from skilled nursing facility..... 0.2 %

Admitted for elective procedure..... 2.9 %

Admitted for emergency..... 54.0 %

### COMORBIDITIES:

Cancer..... 7.6 %

Chronic cardiovascular disease..... 41.9 %

Chronic liver disease..... 0.7 %

Chronic renal disease..... 2.5 %

Chronic pulmonary disease..... 27.1 %

Cerebrovascular degeneration..... 5.4 %

Diabetes mellitus..... 6.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 81.1%

State ..... 13.8%

Outside State ..... 5.1%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.2 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 60

Occupancy Rate ..... 81.0 %

Ownership/Control..... Church

Medicare Discharges ..... 61.8 %

Case Mix Index (CMI) ..... 1.0693

### STAFFING:

Total Number of Physicians..... 8

Percent of Physicians Board  
Certified Specialists..... 87.5 %

Medical Residents/Interns ..... 0

Registered Nurses..... 28

Licensed Practical Nurses..... 21

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... No

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

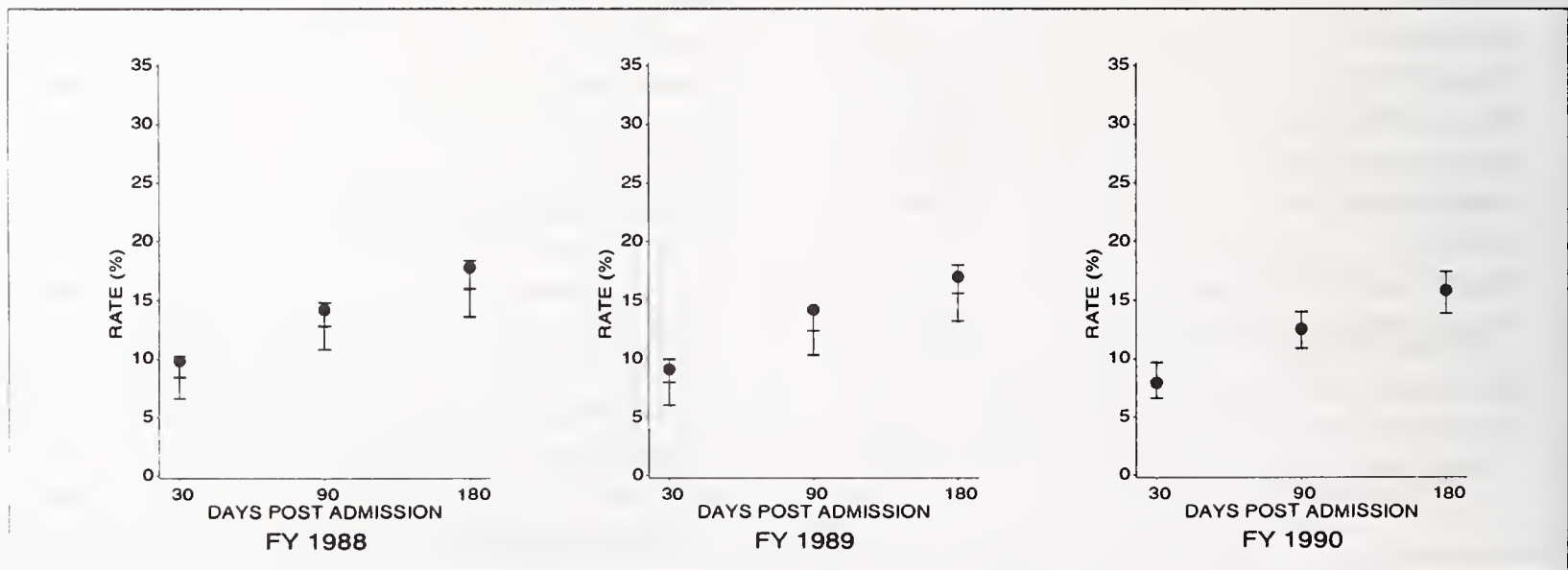
**ST LUKES HOSPITAL**  
1227 E RUSHOLME ST  
DAVENPORT, IA 52803  
Medicare Provider Number: 160025

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 1958            | 7.9                 | 8.1  | 0.8  | 12.5    | 12.4 | 0.8  | 15.8     | 15.6 | 0.9  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 60              | 30.0                | 28.7 | 6.8  | 33.3    | 31.3 | 6.4  | 35.0     | 33.6 | 6.4  |
| Congestive Heart Failure.....              | 80              | 11.2                | 14.7 | 5.7  | 22.5    | 23.1 | 6.3  | 25.0     | 29.4 | 6.4  |
| Pneumonia/Influenza.....                   | 71              | 14.1                | 15.6 | 4.5  | 18.3    | 21.4 | 6.2  | 22.5     | 25.0 | 6.3  |
| Chronic Obstructive Pulmonary Disease..... | 45              | 11.1                | 7.6  | ---- | 13.3    | 13.2 | ---- | 17.8     | 17.7 | ---- |
| Transient Cerebral Ischemia.....           | 15              | 6.7                 | 1.6  | ---- | 13.3    | 3.8  | ---- | 13.3     | 6.4  | ---- |
| Stroke.....                                | 51              | 17.6                | 17.3 | 5.3  | 21.6    | 23.2 | 6.8  | 23.5     | 26.7 | 7.9  |
| Hip Fracture.....                          | 47              | 4.3                 | 6.2  | ---- | 10.6    | 10.9 | ---- | 14.9     | 14.3 | ---- |
| Sepsis.....                                | 15              | 0.0                 | 24.2 | ---- | 13.3    | 31.6 | ---- | 26.7     | 36.4 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 132             | 5.3                 | 3.3  | 3.1  | 7.6     | 4.3  | 3.0  | 8.3      | 5.4  | 3.2  |
| Coronary Artery Bypass Graft.....          | 117             | 2.6                 | 5.6  | 3.7  | 5.1     | 8.1  | 4.3  | 6.8      | 9.1  | 4.7  |
| Initial Pacemaker Insertion.....           | 29              | 0.0                 | 3.1  | ---- | 3.4     | 6.0  | ---- | 3.4      | 8.7  | ---- |
| Carotid Endarterectomy.....                | 10              | 0.0                 | 1.8  | ---- | 0.0     | 3.2  | ---- | 0.0      | 4.5  | ---- |
| Hip Replacement/Reconstruction.....        | 47              | 0.0                 | 2.4  | ---- | 2.1     | 4.3  | ---- | 4.3      | 5.9  | ---- |
| Open Reduction of Hip Fracture.....        | 20              | 5.0                 | 6.0  | ---- | 15.0    | 10.6 | ---- | 15.0     | 14.0 | ---- |
| Prostatectomy.....                         | 38              | 0.0                 | 0.8  | ---- | 2.6     | 1.9  | ---- | 2.6      | 3.2  | ---- |
| Cholecystectomy.....                       | 36              | 5.6                 | 2.2  | ---- | 11.1    | 3.8  | ---- | 13.9     | 4.9  | ---- |
| Hysterectomy.....                          | 20              | 0.0                 | 0.4  | ---- | 0.0     | 0.9  | ---- | 0.0      | 1.6  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



**ST LUKES HOSPITAL**  
Medicare Provider Number: 160025

**FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES**

**DEMOGRAPHICS:**

Average age at admission..... 73.8 years  
Proportion female..... 52.3 %

**ADMISSION SOURCES/TYPES:**

Referred by personal or HMO physician..... 38.7 %  
Transferred from skilled nursing facility..... 0.1 %  
Admitted for elective procedure..... 33.8 %  
Admitted for emergency..... 18.5 %

**COMORBIDITIES:**

Cancer..... 8.3 %  
Chronic cardiovascular disease..... 47.1 %  
Chronic liver disease..... 0.9 %  
Chronic renal disease..... 3.6 %  
Chronic pulmonary disease..... 14.7 %  
Cerebrovascular degeneration..... 2.3 %  
Diabetes mellitus..... 6.1 %

**ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\***

**ORIGIN OF MEDICARE PATIENT ADMISSION:**

County/City ..... 67.3%  
State ..... 17.9%  
Outside State ..... 14.8%  
Total ..... 100.0%

**MEDICARE AVERAGE LENGTH OF STAY:**

Hospital ..... 8.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

**HOSPITAL CHARACTERISTICS\***

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

**PROFILE:**

Total Beds ..... 217  
Occupancy Rate ..... 71.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 34.7 %  
Case Mix Index (CMI) ..... 1.7147

**STAFFING:**

Total Number of Physicians..... 172  
Percent of Physicians Board  
Certified Specialists ..... 81.4 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 255  
Licensed Practical Nurses ..... 28

**SPECIALTY SERVICES:**

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

**OTHER SPECIALTY/HOSPITAL-BASED SERVICES:**

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



**ST LUKES HOSPITAL \*\***

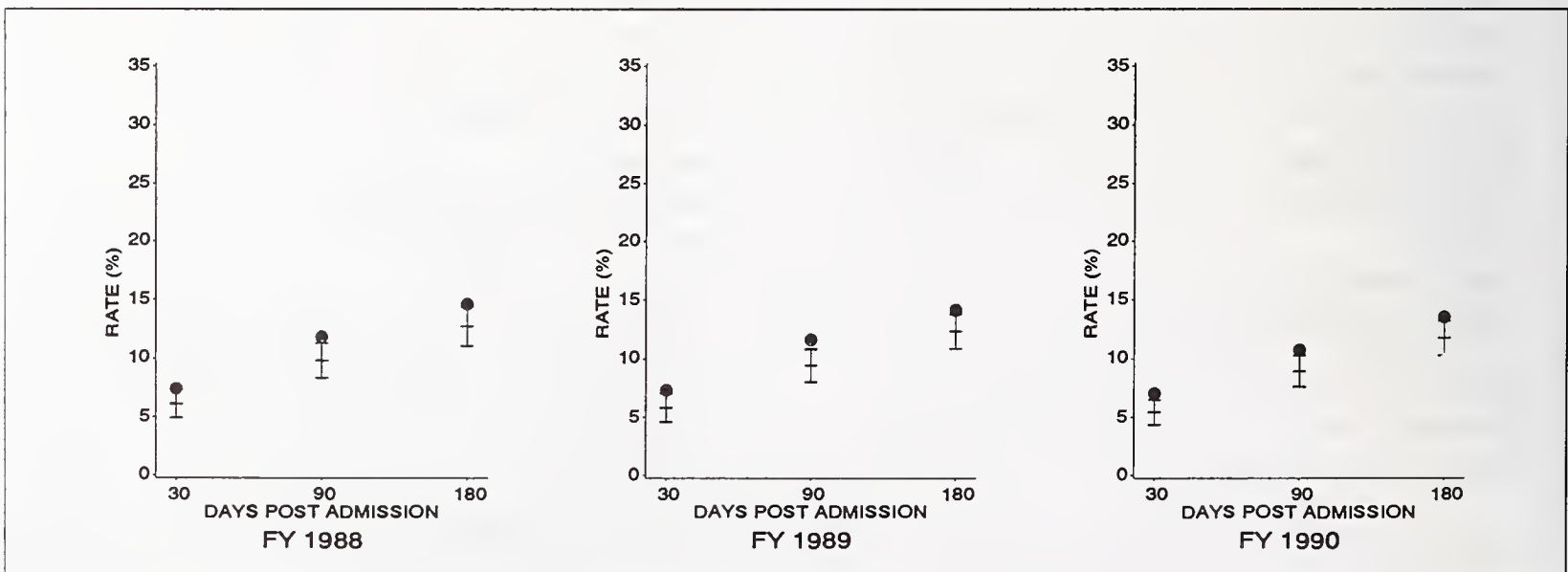
1026 A AVE NE  
CEDAR RAPIDS, IA 52402  
Medicare Provider Number: 160045

**FY 1990 MEDICARE HOSPITAL MORTALITY RATES**

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3485               | 7.0                 | 5.4  | 0.5   | 10.7    | 8.9  | 0.7   | 13.5     | 11.7 | 0.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 110                | 17.3                | 13.7 | 5.2   | 20.9    | 17.0 | 4.8   | 23.6     | 19.8 | 4.7   |
| Congestive Heart Failure.....              | 123                | 10.6                | 12.3 | 3.3   | 21.1    | 20.3 | 4.2   | 29.3     | 26.4 | 5.9   |
| Pneumonia/Influenza.....                   | 163                | 16.0                | 12.6 | 5.3   | 22.1    | 17.9 | 5.2   | 23.3     | 21.8 | 4.4   |
| Chronic Obstructive Pulmonary Disease..... | 88                 | 8.0                 | 4.3  | 3.1   | 14.8    | 8.5  | 4.4   | 22.7     | 12.2 | 6.1   |
| Transient Cerebral Ischemia.....           | 51                 | 2.0                 | 0.9  | 2.1   | 3.9     | 2.2  | 2.5   | 3.9      | 3.9  | 2.8   |
| Stroke.....                                | 112                | 19.6                | 13.3 | 5.7   | 28.6    | 19.6 | 7.6   | 31.3     | 23.5 | 7.7   |
| Hip Fracture.....                          | 108                | 5.6                 | 4.8  | 4.6   | 13.0    | 9.0  | 5.7   | 14.8     | 12.4 | 5.4   |
| Sepsis.....                                | 34                 | 14.7                | 14.6 | ----- | 23.5    | 20.2 | ----- | 26.5     | 24.1 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 35                 | 0.0                 | 2.9  | ----- | 2.9     | 4.3  | ----- | 2.9      | 5.5  | ----- |
| Coronary Artery Bypass Graft.....          | 150                | 3.3                 | 4.5  | 2.0   | 4.0     | 6.7  | 2.7   | 4.0      | 7.7  | 3.1   |
| Initial Pacemaker Insertion.....           | 45                 | 2.2                 | 2.2  | ----- | 4.4     | 4.4  | ----- | 6.7      | 6.8  | ----- |
| Carotid Endarterectomy.....                | 16                 | 0.0                 | 1.0  | ----- | 0.0     | 1.9  | ----- | 0.0      | 2.8  | ----- |
| Hip Replacement/Reconstruction.....        | 92                 | 4.3                 | 2.4  | 3.3   | 8.7     | 4.7  | 4.3   | 10.9     | 6.6  | 4.6   |
| Open Reduction of Hip Fracture.....        | 55                 | 3.6                 | 4.5  | 3.0   | 9.1     | 8.7  | 3.8   | 10.9     | 11.9 | 4.6   |
| Prostatectomy.....                         | 137                | 0.7                 | 0.8  | 0.8   | 1.5     | 1.7  | 1.2   | 2.9      | 3.0  | 1.9   |
| Cholecystectomy.....                       | 82                 | 3.7                 | 2.5  | 2.6   | 8.5     | 4.9  | 4.5   | 8.5      | 6.7  | 5.3   |
| Hysterectomy.....                          | 39                 | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

**OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm$  2 SD)  
FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES**



\*\* This hospital says that it submitted inaccurate data to Medicare and that its predicted mortality rate should be higher than that presented above.

# ST LUKES HOSPITAL

Medicare Provider Number: 160045

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.4 years  
Proportion female..... 52.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 90.2 %  
Transferred from skilled nursing facility..... 2.4 %  
Admitted for elective procedure..... 98.2 %  
Admitted for emergency..... 0.6 %

### COMORBIDITIES:

Cancer..... 7.3 %  
Chronic cardiovascular disease..... 38.4 %  
Chronic liver disease..... 0.5 %  
Chronic renal disease..... 1.9 %  
Chronic pulmonary disease..... 15.8 %  
Cerebrovascular degeneration..... 4.3 %  
Diabetes mellitus..... 7.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 66.4%  
State ..... 31.9%  
Outside State ..... 1.7%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.3 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 477  
Occupancy Rate ..... 66.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 33.4 %  
Case Mix Index (CMI) ..... 1.5178

### STAFFING:

Total Number of Physicians..... 233  
Percent of Physicians Board  
Certified Specialists..... 81.1 %  
Medical Residents/Interns ..... 11  
Registered Nurses..... 627  
Licensed Practical Nurses ..... 35

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... Yes  
Psychiatric ..... Yes  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# ST LUKES REGIONAL MEDICAL CENTER

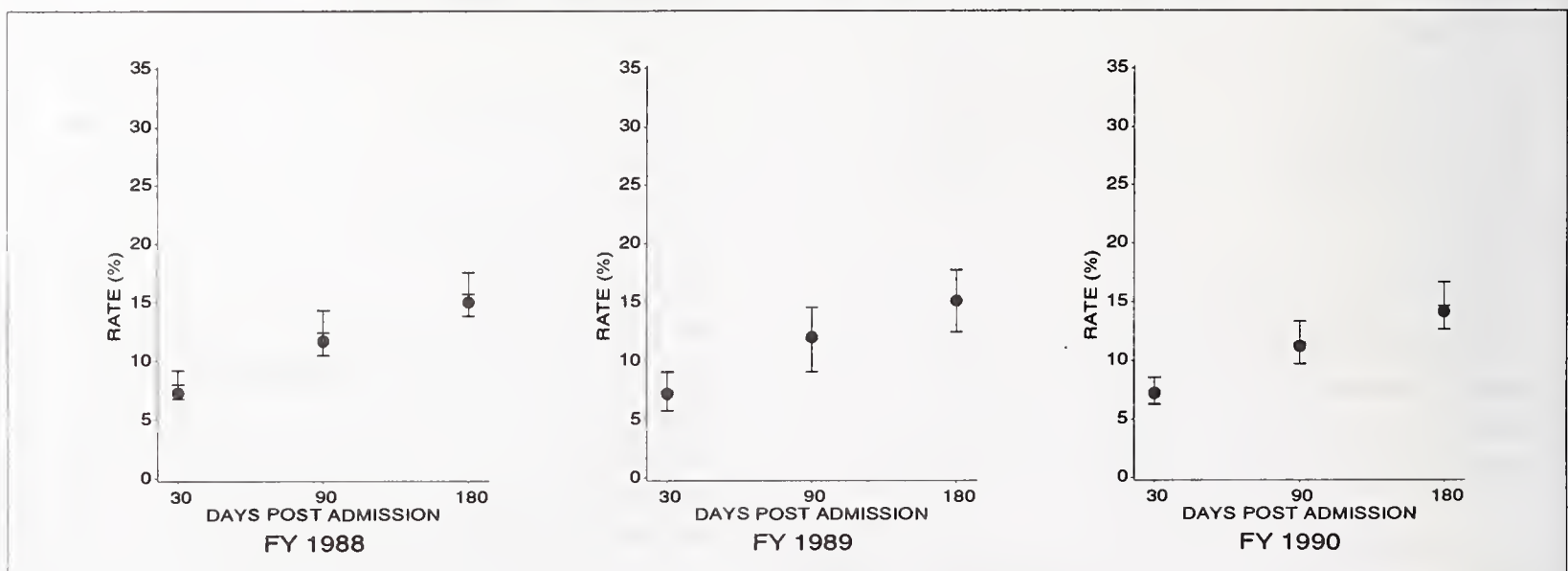
2720 STONE PARK BLVD  
SIOUX CITY, IA 51104  
Medicare Provider Number: 160146

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 2886            | 7.2                 | 7.4  | 0.6   | 11.2    | 11.5 | 0.9   | 14.1     | 14.6 | 1.0   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 53              | 18.9                | 28.1 | 11.6  | 28.3    | 30.6 | 11.2  | 28.3     | 33.2 | 8.8   |
| Congestive Heart Failure.....              | 100             | 10.0                | 15.2 | 6.9   | 20.0    | 23.6 | 6.0   | 31.0     | 30.0 | 5.8   |
| Pneumonia/Influenza.....                   | 141             | 15.6                | 15.3 | 3.9   | 22.7    | 21.2 | 3.7   | 26.2     | 25.2 | 3.8   |
| Chronic Obstructive Pulmonary Disease..... | 43              | 9.3                 | 5.9  | ----- | 9.3     | 10.4 | ----- | 16.3     | 14.2 | ----- |
| Transient Cerebral Ischemia.....           | 36              | 2.8                 | 2.6  | ----- | 5.6     | 5.8  | ----- | 16.7     | 9.4  | ----- |
| Stroke.....                                | 104             | 12.5                | 19.4 | 5.3   | 17.3    | 25.9 | 6.8   | 21.2     | 29.8 | 7.4   |
| Hip Fracture.....                          | 132             | 5.3                 | 7.2  | 2.5   | 7.6     | 12.5 | 3.7   | 8.3      | 16.1 | 4.6   |
| Sepsis.....                                | 29              | 31.0                | 27.7 | ----- | 37.9    | 37.4 | ----- | 44.8     | 42.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 23              | 8.7                 | 6.6  | ----- | 8.7     | 11.5 | ----- | 13.0     | 15.2 | ----- |
| Carotid Endarterectomy.....                | 7               | 0.0                 | 0.8  | ----- | 0.0     | 1.7  | ----- | 0.0      | 2.7  | ----- |
| Hip Replacement/Reconstruction.....        | 139             | 1.4                 | 2.7  | 1.8   | 2.9     | 4.8  | 2.6   | 3.6      | 6.4  | 3.0   |
| Open Reduction of Hip Fracture.....        | 83              | 3.6                 | 5.8  | 3.0   | 6.0     | 10.8 | 4.9   | 6.0      | 14.4 | 6.5   |
| Prostatectomy.....                         | 142             | 0.7                 | 0.8  | 0.7   | 2.1     | 1.8  | 1.3   | 5.6      | 3.1  | 2.3   |
| Cholecystectomy.....                       | 64              | 3.1                 | 2.3  | 2.0   | 6.3     | 4.7  | 2.9   | 6.3      | 6.7  | 3.5   |
| Hysterectomy.....                          | 30              | 3.3                 | 0.7  | ----- | 6.7     | 1.6  | ----- | 6.7      | 2.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# ST LUKES REGIONAL MEDICAL CENTER

Medicare Provider Number: 160146

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.3 years  
Proportion female..... 54.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 44.6 %  
Transferred from skilled nursing facility..... 0.3 %  
Admitted for elective procedure..... 34.6 %  
Admitted for emergency..... 11.0 %

### COMORBIDITIES:

Cancer..... 8.7 %  
Chronic cardiovascular disease..... 28.1 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 14.1 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 6.1 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 52.5%  
State ..... 27.9%  
Outside State ..... 19.6%  
-----  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.8 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 371  
Occupancy Rate ..... 55.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 35.6 %  
Case Mix Index (CMI) ..... 1.2819

### STAFFING:

Total Number of Physicians..... 143  
Percent of Physicians Board  
Certified Specialists..... 86.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 350  
Licensed Practical Nurses ..... 61

### SPECIALTY SERVICES:

Burn Unit ..... Yes  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# STEWART MEMORIAL COMMUNITY HOSPITAL

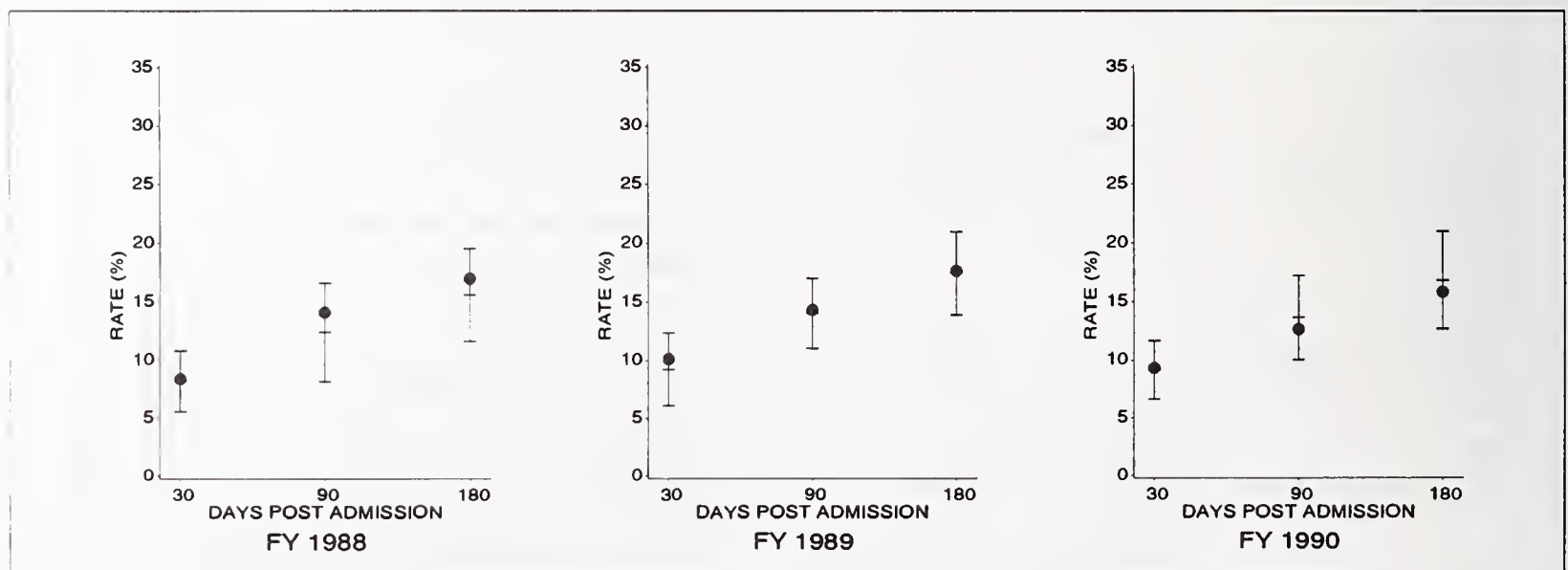
1200 W MONROE  
LAKE CITY, IA 51449  
Medicare Provider Number: 160072

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 602                | 9.3                 | 9.1  | 1.3   | 12.6    | 13.6 | 1.8   | 15.8     | 16.8 | 2.1   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 19                 | 47.4                | 34.6 | ----- | 47.4    | 38.2 | ----- | 57.9     | 41.9 | ----- |
| Congestive Heart Failure.....              | 26                 | 0.0                 | 13.4 | ----- | 15.4    | 21.4 | ----- | 15.4     | 27.6 | ----- |
| Pneumonia/Influenza.....                   | 52                 | 13.5                | 15.8 | 5.5   | 25.0    | 21.6 | 6.7   | 26.9     | 25.2 | 6.3   |
| Chronic Obstructive Pulmonary Disease..... | 12                 | 25.0                | 10.6 | ----- | 25.0    | 18.2 | ----- | 33.3     | 23.6 | ----- |
| Transient Cerebral Ischemia.....           | 7                  | 0.0                 | 1.2  | ----- | 0.0     | 2.8  | ----- | 14.3     | 4.9  | ----- |
| Stroke.....                                | 8                  | 0.0                 | 20.6 | ----- | 0.0     | 25.2 | ----- | 12.5     | 28.1 | ----- |
| Hip Fracture.....                          | 15                 | 6.7                 | 7.2  | ----- | 6.7     | 12.3 | ----- | 13.3     | 15.9 | ----- |
| Sepsis.....                                | 3                  | 0.0                 | 22.4 | ----- | 0.0     | 27.7 | ----- | 0.0      | 31.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 5                  | 0.0                 | 1.8  | ----- | 0.0     | 3.7  | ----- | 0.0      | 5.5  | ----- |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 6                  | 16.7                | 7.8  | ----- | 16.7    | 13.7 | ----- | 33.3     | 17.8 | ----- |
| Open Reduction of Hip Fracture.....        | 2                  | 0.0                 | 3.3  | ----- | 0.0     | 6.1  | ----- | 0.0      | 8.5  | ----- |
| Prostatectomy.....                         | 19                 | 5.3                 | 1.3  | ----- | 5.3     | 3.0  | ----- | 5.3      | 5.1  | ----- |
| Cholecystectomy.....                       | 14                 | 0.0                 | 3.2  | ----- | 0.0     | 6.0  | ----- | 7.1      | 7.9  | ----- |
| Hysterectomy.....                          | 11                 | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.5  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# STEWART MEMORIAL COMMUNITY HOSPITAL

Medicare Provider Number: 160072

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 76.4 years  
Proportion female..... 57.0 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 99.2 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.2 %  
Admitted for emergency..... 99.3 %

### COMORBIDITIES:

Cancer..... 5.0 %  
Chronic cardiovascular disease..... 30.4 %  
Chronic liver disease..... 1.0 %  
Chronic renal disease..... 4.0 %  
Chronic pulmonary disease..... 12.8 %  
Cerebrovascular degeneration..... 5.8 %  
Diabetes mellitus..... 4.0 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 61.0%  
State..... 38.3%  
Outside State..... 0.7%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 6.7 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: Health Care Financing Administration (OSCAR)\*\* - Survey Year 1991

### PROFILE:

Total Beds..... 53  
Ownership/Control..... Private, Non-Profit  
Case Mix Index (CMI)..... 1.1037

### STAFFING:

Medical Residents/Interns..... 0  
Registered Nurses..... 32  
Licensed Practical Nurses..... 3

### SPECIALTY SERVICES:

Burn Unit..... No  
Coronary Care Unit..... Yes  
Hospice Care..... Yes  
Intensive Care Unit..... Yes  
Organ Transplant..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# STORY CITY MEMORIAL HOSPITAL

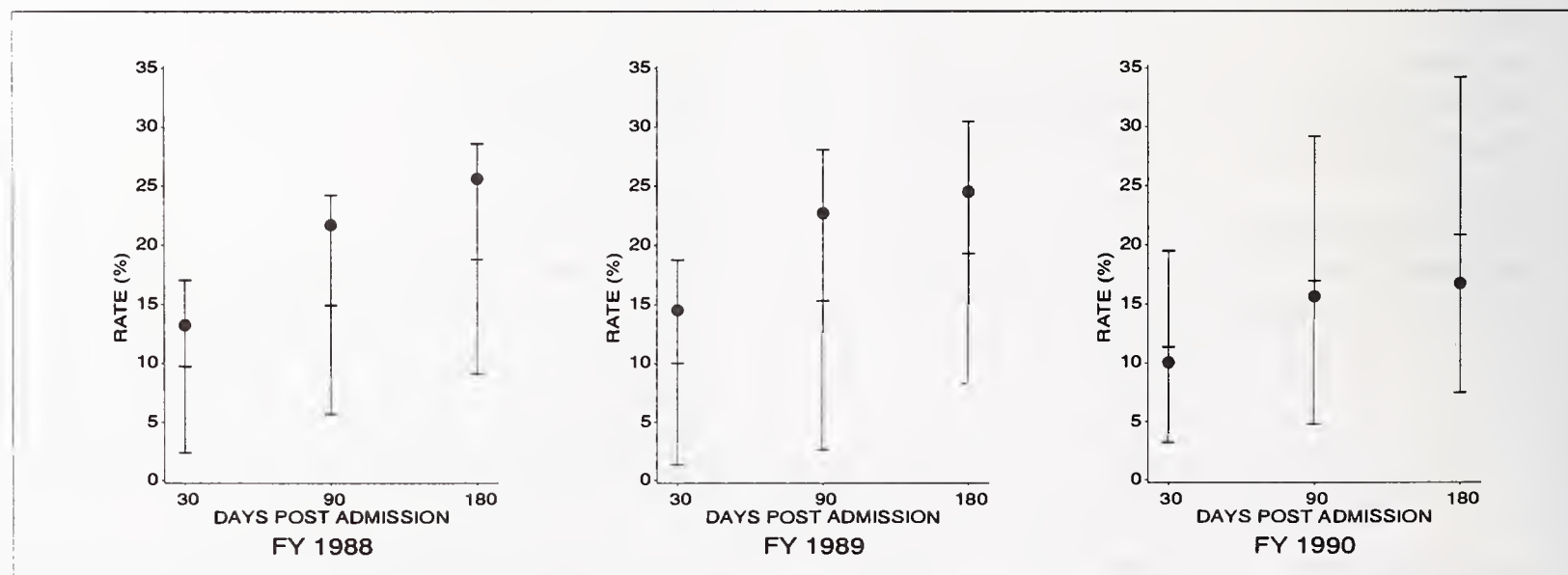
812 ELM  
STORY CITY, IA 50248  
Medicare Provider Number: 160123

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 90                 | 10.0                | 11.3 | 4.1   | 15.6    | 16.9 | 6.1   | 16.7     | 20.8 | 6.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 4                  | 25.0                | 37.4 | ----- | 25.0    | 41.8 | ----- | 25.0     | 45.2 | ----- |
| Congestive Heart Failure.....              | 7                  | 14.3                | 18.7 | ----- | 28.6    | 30.3 | ----- | 28.6     | 37.3 | ----- |
| Pneumonia/Influenza.....                   | 9                  | 11.1                | 17.0 | ----- | 22.2    | 22.7 | ----- | 22.2     | 26.5 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 0                  |                     |      |       |         |      |       |          |      |       |
| Transient Cerebral Ischemia.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Stroke.....                                | 3                  | 0.0                 | 31.2 | ----- | 33.3    | 39.3 | ----- | 33.3     | 46.2 | ----- |
| Hip Fracture.....                          | 3                  | 0.0                 | 8.1  | ----- | 0.0     | 14.5 | ----- | 0.0      | 18.6 | ----- |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 3                  | 0.0                 | 7.3  | ----- | 0.0     | 13.5 | ----- | 0.0      | 17.6 | ----- |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 0.0                 | 1.0  | ----- | 0.0     | 1.7  | ----- | 0.0      | 2.3  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# STORY CITY MEMORIAL HOSPITAL

Medicare Provider Number: 160123

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 82.1 years  
Proportion female..... 62.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 94.4 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 1.1 %  
Admitted for emergency..... 55.6 %

### COMORBIDITIES:

Cancer..... 4.4 %  
Chronic cardiovascular disease..... 50.0 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 13.3 %  
Cerebrovascular degeneration..... 4.4 %  
Diabetes mellitus..... 8.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 69.8%  
State ..... 27.1%  
Outside State ..... 3.1%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 36  
Occupancy Rate ..... 44.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 66.6 %  
Case Mix Index (CMI) ..... 1.0746

### STAFFING:

Total Number of Physicians..... 11  
Percent of Physicians Board  
Certified Specialists..... 90.9 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 11  
Licensed Practical Nurses ..... 5

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# STORY COUNTY HOSPITAL

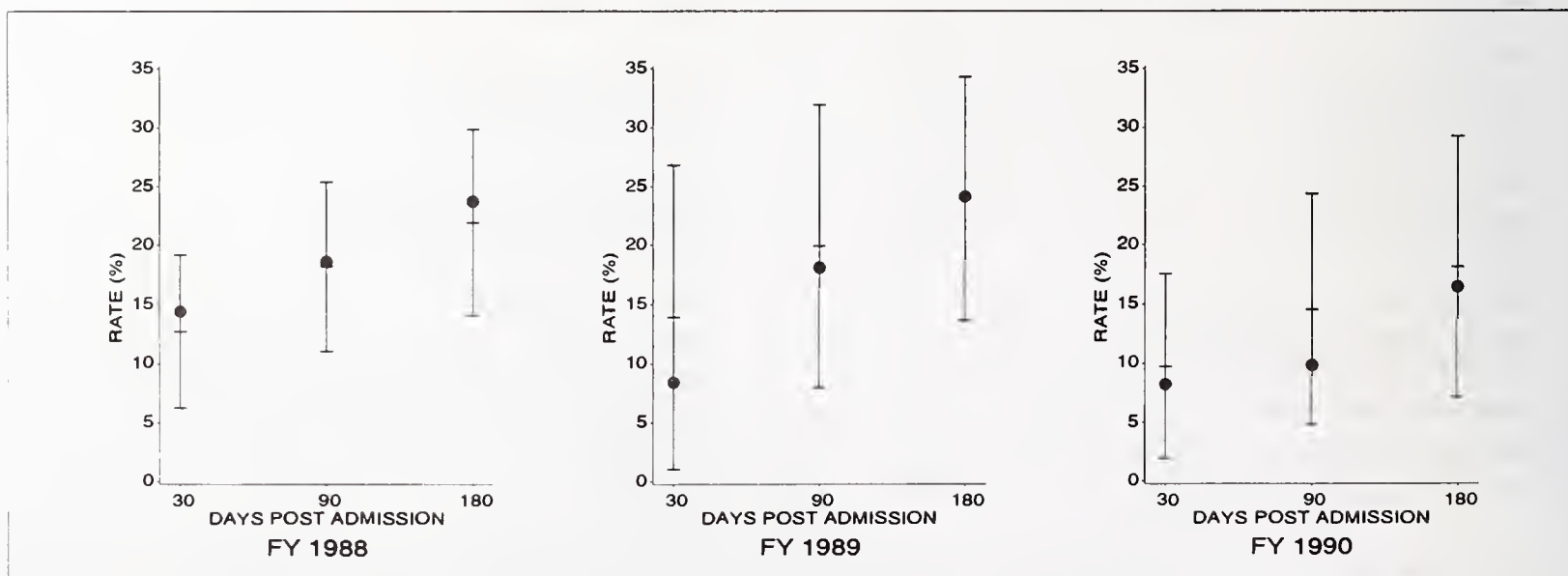
630 6TH ST  
NEVADA, IA 50201  
Medicare Provider Number: 160088

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 61              | 8.2                 | 9.7  | 3.9   | 9.8     | 14.5 | 4.9   | 16.4     | 18.1 | 5.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 1               | 0.0                 | 13.4 | ----- | 0.0     | 17.9 | ----- | 0.0      | 20.5 | ----- |
| Congestive Heart Failure.....              | 4               | 0.0                 | 14.1 | ----- | 0.0     | 22.0 | ----- | 25.0     | 29.2 | ----- |
| Pneumonia/Influenza.....                   | 9               | 22.2                | 14.9 | ----- | 22.2    | 20.2 | ----- | 33.3     | 24.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 2               | 0.0                 | 3.7  | ----- | 0.0     | 6.6  | ----- | 0.0      | 9.5  | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 1.7  | ----- | 0.0     | 3.9  | ----- | 0.0      | 6.6  | ----- |
| Stroke.....                                | 1               | 0.0                 | 14.6 | ----- | 0.0     | 21.0 | ----- | 0.0      | 24.4 | ----- |
| Hip Fracture.....                          | 3               | 33.3                | 4.3  | ----- | 33.3    | 8.1  | ----- | 33.3     | 10.9 | ----- |
| Sepsis.....                                | 0               |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 1               | 0.0                 | 2.5  | ----- | 0.0     | 5.5  | ----- | 100.0    | 8.3  | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1               | 0.0                 | 1.6  | ----- | 0.0     | 3.8  | ----- | 0.0      | 5.7  | ----- |
| Open Reduction of Hip Fracture.....        | 1               | 0.0                 | 5.0  | ----- | 0.0     | 10.2 | ----- | 0.0      | 14.2 | ----- |
| Prostatectomy.....                         | 1               | 0.0                 | 0.3  | ----- | 0.0     | 0.7  | ----- | 0.0      | 1.2  | ----- |
| Cholecystectomy.....                       | 0               |                     |      |       |         |      |       |          |      |       |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# STORY COUNTY HOSPITAL

Medicare Provider Number: 160088

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 80.8 years  
Proportion female..... 70.5 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 100.0 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 0.0 %  
Admitted for emergency..... 100.0 %

### COMORBIDITIES:

Cancer..... 0.0 %  
Chronic cardiovascular disease..... 44.3 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 3.3 %  
Chronic pulmonary disease..... 14.8 %  
Cerebrovascular degeneration..... 0.0 %  
Diabetes mellitus..... 8.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 91.2%  
State ..... 8.8%  
Outside State ..... 0.0%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 7.1 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 122  
Occupancy Rate ..... 74.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 35.8 %  
Case Mix Index (CMI) ..... 1.0316

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists .....(Not Available)  
Medical Residents/Interns ..... 0  
Registered Nurses..... 17  
Licensed Practical Nurses ..... 1

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# TRINITY REGIONAL HOSPITAL

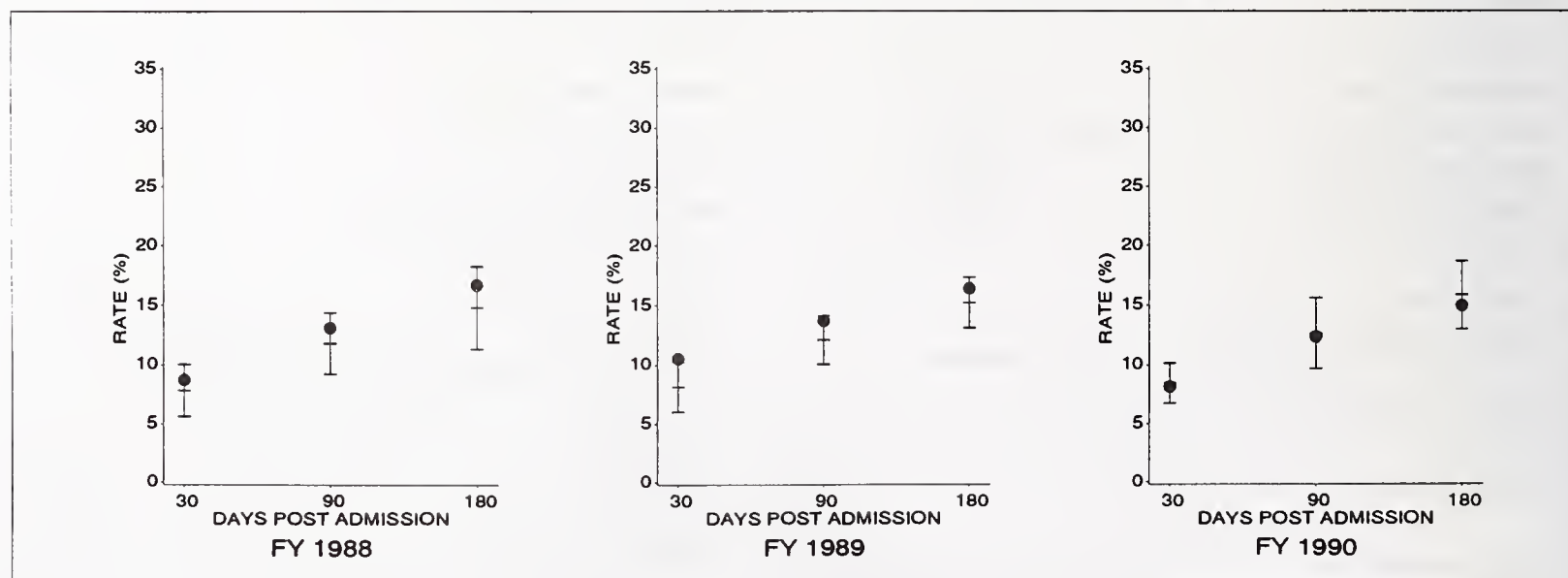
S KENYON RD  
FORT DODGE, IA 50501  
Medicare Provider Number: 160016

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 1621            | 8.1                 | 8.4  | 0.9   | 12.3    | 12.6 | 1.5   | 14.9     | 15.8 | 1.4   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 53              | 30.2                | 25.0 | 8.2   | 32.1    | 27.9 | 7.9   | 35.8     | 30.6 | 8.3   |
| Congestive Heart Failure.....              | 76              | 10.5                | 14.7 | 6.8   | 17.1    | 22.9 | 7.1   | 21.1     | 29.0 | 7.7   |
| Pneumonia/Influenza.....                   | 79              | 10.1                | 15.4 | 4.4   | 12.7    | 21.4 | 5.1   | 12.7     | 25.6 | 5.8   |
| Chronic Obstructive Pulmonary Disease..... | 16              | 0.0                 | 6.8  | ----- | 12.5    | 12.0 | ----- | 25.0     | 16.6 | ----- |
| Transient Cerebral Ischemia.....           | 18              | 0.0                 | 1.8  | ----- | 0.0     | 4.3  | ----- | 5.6      | 7.2  | ----- |
| Stroke.....                                | 54              | 9.3                 | 17.8 | 8.3   | 13.0    | 24.7 | 9.5   | 16.7     | 28.7 | 9.8   |
| Hip Fracture.....                          | 68              | 2.9                 | 5.4  | 4.4   | 7.4     | 9.6  | 5.3   | 8.8      | 12.7 | 5.2   |
| Sepsis.....                                | 21              | 28.6                | 26.5 | ----- | 42.9    | 37.0 | ----- | 47.6     | 43.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 12              | 8.3                 | 5.1  | ----- | 25.0    | 9.7  | ----- | 25.0     | 13.2 | ----- |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 47              | 0.0                 | 2.5  | ----- | 2.1     | 4.7  | ----- | 4.3      | 6.5  | ----- |
| Open Reduction of Hip Fracture.....        | 42              | 4.8                 | 5.3  | ----- | 11.9    | 9.7  | ----- | 14.3     | 12.9 | ----- |
| Prostatectomy.....                         | 67              | 3.0                 | 1.2  | 1.9   | 6.0     | 2.7  | 3.5   | 9.0      | 4.6  | 4.8   |
| Cholecystectomy.....                       | 45              | 0.0                 | 1.9  | ----- | 0.0     | 3.7  | ----- | 0.0      | 5.1  | ----- |
| Hysterectomy.....                          | 27              | 3.7                 | 0.4  | ----- | 3.7     | 1.1  | ----- | 7.4      | 1.7  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# TRINITY REGIONAL HOSPITAL

Medicare Provider Number: 160016

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 75.7 years

Proportion female..... 55.6 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 39.6 %

Transferred from skilled nursing facility..... 0.3 %

Admitted for elective procedure..... 42.5 %

Admitted for emergency..... 19.6 %

### COMORBIDITIES:

Cancer..... 7.8 %

Chronic cardiovascular disease..... 31.5 %

Chronic liver disease..... 1.4 %

Chronic renal disease..... 2.3 %

Chronic pulmonary disease..... 15.3 %

Cerebrovascular degeneration..... 4.3 %

Diabetes mellitus..... 8.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 66.8%

State ..... 32.1%

Outside State ..... 1.1%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 8.1 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 166

Occupancy Rate ..... 58.0 %

Ownership/Control..... Private, Non-Profit

Medicare Discharges ..... 44.1 %

Case Mix Index (CMI) ..... 1.2604

### STAFFING:

Total Number of Physicians..... 61

Percent of Physicians Board  
Certified Specialists ..... 78.7 %

Medical Residents/Interns ..... 2

Registered Nurses..... 164

Licensed Practical Nurses ..... 19

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... No

Medical/Surgical Intensive Care ..... Yes

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes

Rehabilitation..... No

Psychiatric ..... Yes

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# UNIVERSITY OF IOWA HOSPITAL & CLINIC

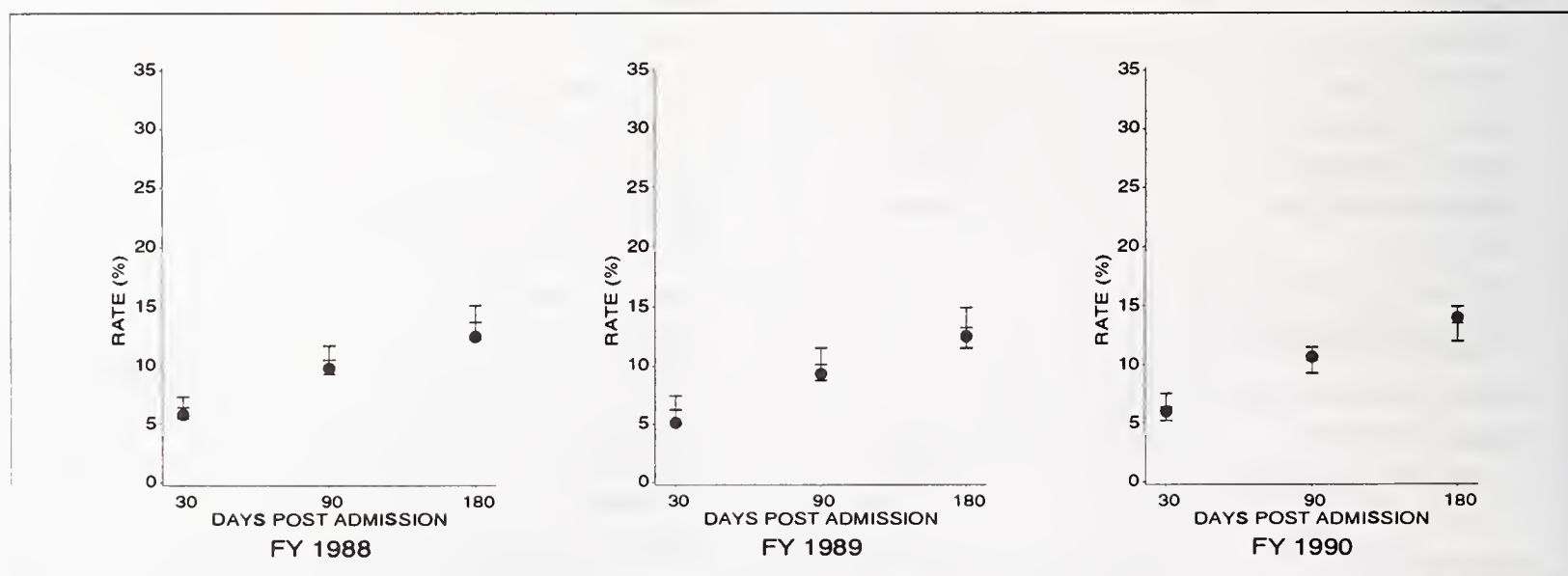
NEWTON RD  
IOWA CITY, IA 52240  
Medicare Provider Number: 160058

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 3691               | 6.0                 | 6.4  | 0.6   | 10.7    | 10.4 | 0.6   | 14.0     | 13.5 | 0.7   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 65                 | 23.1                | 22.3 | 8.8   | 30.8    | 25.2 | 9.1   | 33.8     | 27.8 | 8.5   |
| Congestive Heart Failure.....              | 83                 | 21.7                | 16.8 | 6.2   | 34.9    | 27.5 | 9.1   | 42.2     | 34.4 | 9.2   |
| Pneumonia/Influenza.....                   | 59                 | 18.6                | 13.7 | 5.3   | 23.7    | 19.2 | 5.5   | 27.1     | 23.1 | 5.9   |
| Chronic Obstructive Pulmonary Disease..... | 24                 | 4.2                 | 8.0  | ----- | 12.5    | 13.6 | ----- | 20.8     | 18.1 | ----- |
| Transient Cerebral Ischemia.....           | 37                 | 2.7                 | 1.5  | ----- | 10.8    | 3.2  | ----- | 10.8     | 5.2  | ----- |
| Stroke.....                                | 85                 | 18.8                | 22.5 | 5.6   | 24.7    | 27.9 | 7.4   | 29.4     | 31.2 | 6.8   |
| Hip Fracture.....                          | 41                 | 4.9                 | 7.4  | ----- | 9.8     | 12.9 | ----- | 14.6     | 16.3 | ----- |
| Sepsis.....                                | 13                 | 46.2                | 20.6 | ----- | 53.8    | 29.4 | ----- | 61.5     | 34.4 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 52                 | 11.5                | 3.6  | 3.8   | 15.4    | 4.7  | 4.7   | 15.4     | 5.9  | 4.8   |
| Coronary Artery Bypass Graft.....          | 125                | 8.0                 | 5.3  | 3.2   | 12.0    | 7.7  | 4.0   | 12.8     | 8.9  | 4.5   |
| Initial Pacemaker Insertion.....           | 12                 | 8.3                 | 5.6  | ----- | 16.7    | 11.1 | ----- | 16.7     | 15.3 | ----- |
| Carotid Endarterectomy.....                | 14                 | 0.0                 | 1.2  | ----- | 0.0     | 2.1  | ----- | 7.1      | 3.0  | ----- |
| Hip Replacement/Reconstruction.....        | 45                 | 0.0                 | 2.2  | ----- | 0.0     | 4.1  | ----- | 2.2      | 5.5  | ----- |
| Open Reduction of Hip Fracture.....        | 20                 | 5.0                 | 5.6  | ----- | 10.0    | 10.1 | ----- | 10.0     | 12.9 | ----- |
| Prostatectomy.....                         | 65                 | 0.0                 | 1.1  | 1.6   | 3.1     | 2.6  | 2.0   | 6.2      | 4.3  | 3.0   |
| Cholecystectomy.....                       | 29                 | 3.4                 | 2.6  | ----- | 6.9     | 5.0  | ----- | 6.9      | 6.6  | ----- |
| Hysterectomy.....                          | 35                 | 0.0                 | 0.9  | ----- | 0.0     | 2.0  | ----- | 5.7      | 3.3  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# UNIVERSITY OF IOWA HOSPITAL & CLINIC

Medicare Provider Number: 160058

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 68.0 years  
Proportion female..... 47.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 60.9 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 66.3 %  
Admitted for emergency..... 26.5 %

### COMORBIDITIES:

Cancer..... 10.1 %  
Chronic cardiovascular disease..... 32.3 %  
Chronic liver disease..... 1.3 %  
Chronic renal disease..... 6.3 %  
Chronic pulmonary disease..... 11.5 %  
Cerebrovascular degeneration..... 3.5 %  
Diabetes mellitus..... 6.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 7.1%  
State ..... 79.4%  
Outside State ..... 13.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 10.3 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 879  
Occupancy Rate ..... 80.0 %  
Ownership/Control..... State Government  
Medicare Discharges ..... 25.1 %  
Case Mix Index (CMI) ..... 1.5650

### STAFFING:

Total Number of Physicians..... 493  
Percent of Physicians Board  
Certified Specialists..... 85.0 %  
Medical Residents/Interns ..... 416  
Registered Nurses..... 1356  
Licensed Practical Nurses ..... 68

### SPECIALTY SERVICES:

Burn Unit ..... Yes  
Cardiac Intensive Care ..... Yes  
Comprehensive Geriatric ..... Yes  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... Yes  
Other Intensive Care ..... No  
Trauma Center ..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... Yes  
Rehabilitation..... No  
Psychiatric ..... Yes  
Medicare Swing Beds ..... No

\*\* Except for CMI

\* Not used in calculating mortality rates

# VAN BUREN COUNTY MEMORIAL HOSPITAL

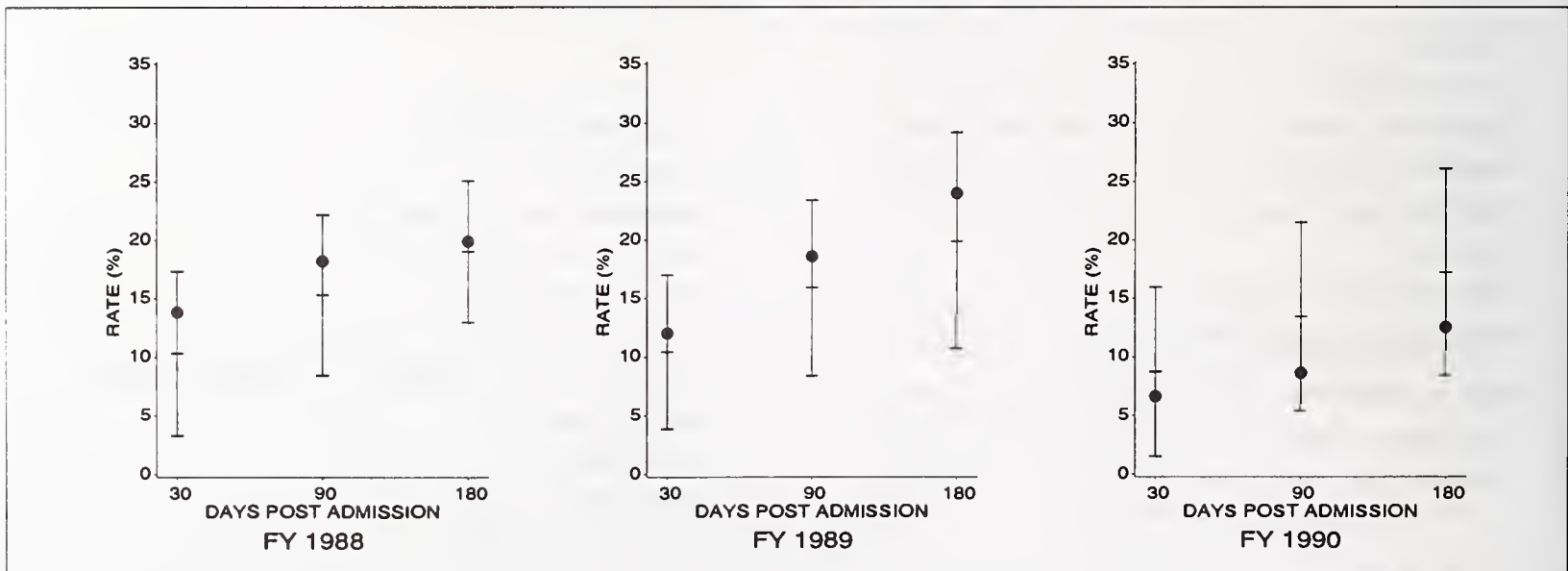
HWY 1 N, BOX 70  
KEOSAUQUA, IA 52565  
Medicare Provider Number: 160054

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 152             | 6.6                 | 8.7  | 3.6   | 8.6     | 13.4 | 4.1   | 12.5     | 17.2 | 4.5   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 2               | 50.0                | 55.2 | ----- | 50.0    | 59.0 | ----- | 50.0     | 62.8 | ----- |
| Congestive Heart Failure.....              | 12              | 25.0                | 14.4 | ----- | 25.0    | 22.3 | ----- | 25.0     | 28.4 | ----- |
| Pneumonia/Influenza.....                   | 16              | 6.3                 | 15.5 | ----- | 12.5    | 21.1 | ----- | 25.0     | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 7.9  | ----- | 0.0     | 13.9 | ----- | 0.0      | 19.1 | ----- |
| Transient Cerebral Ischemia.....           | 6               | 16.7                | 2.5  | ----- | 16.7    | 5.7  | ----- | 16.7     | 9.7  | ----- |
| Stroke.....                                | 5               | 0.0                 | 18.9 | ----- | 0.0     | 25.4 | ----- | 0.0      | 30.3 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 2               | 0.0                 | 7.9  | ----- | 0.0     | 10.6 | ----- | 0.0      | 13.8 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 1               | 0.0                 | 1.1  | ----- | 0.0     | 1.5  | ----- | 0.0      | 1.9  | ----- |
| Hysterectomy.....                          | 1               | 0.0                 | 0.1  | ----- | 0.0     | 0.3  | ----- | 0.0      | 0.6  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# VAN BUREN COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160054

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.9 years  
Proportion female..... 59.9 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 36.2 %  
Transferred from skilled nursing facility..... 0.7 %  
Admitted for elective procedure..... 15.1 %  
Admitted for emergency..... 0.7 %

### COMORBIDITIES:

Cancer..... 5.3 %  
Chronic cardiovascular disease..... 57.2 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 4.6 %  
Chronic pulmonary disease..... 24.3 %  
Cerebrovascular degeneration..... 3.3 %  
Diabetes mellitus..... 9.2 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.4%  
State ..... 14.1%  
Outside State ..... 2.5%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.5 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 40  
Occupancy Rate ..... 42.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 70.9 %  
Case Mix Index (CMI) ..... 0.9896

### STAFFING:

Total Number of Physicians..... 3  
Percent of Physicians Board  
Certified Specialists ..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 15  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# VETERANS MEMORIAL HOSPITAL

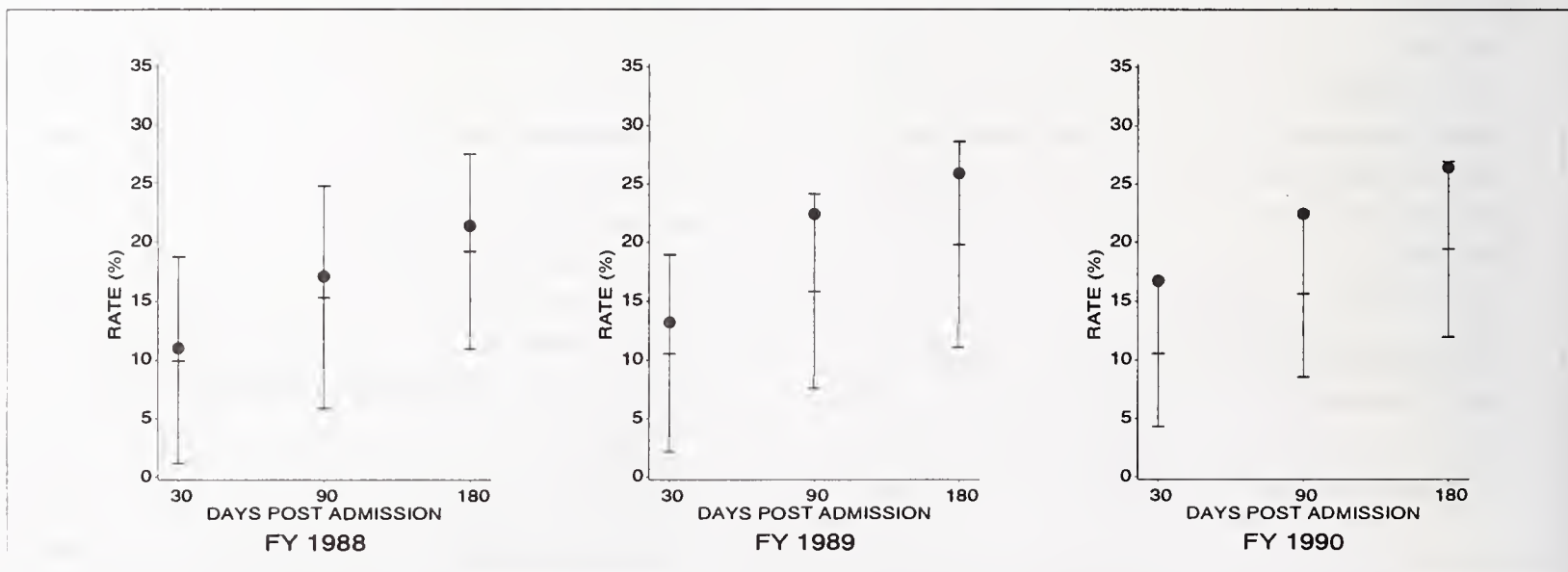
22 FIRST AVENUE S E  
WAUKON, IA 52172  
Medicare Provider Number: 160023

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |      |         |      |      |          |      |      |
|--------------------------------------------|-----------------|---------------------|------|------|---------|------|------|----------|------|------|
|                                            |                 | 30 DAYS             |      |      | 90 DAYS |      |      | 180 DAYS |      |      |
|                                            |                 | OBS                 | PRED | SD*  | OBS     | PRED | SD*  | OBS      | PRED | SD*  |
| ALL CAUSES.....                            | 246             | 16.7                | 10.5 | 3.1  | 22.4    | 15.6 | 3.5  | 26.4     | 19.4 | 3.8  |
| CONDITIONS:                                |                 |                     |      |      |         |      |      |          |      |      |
| Acute Myocardial Infarction.....           | 12              | 16.7                | 29.0 | ---- | 16.7    | 31.5 | ---- | 16.7     | 34.3 | ---- |
| Congestive Heart Failure.....              | 15              | 26.7                | 16.7 | ---- | 33.3    | 26.6 | ---- | 53.3     | 34.0 | ---- |
| Pneumonia/Influenza.....                   | 17              | 11.8                | 19.1 | ---- | 17.6    | 25.8 | ---- | 23.5     | 30.2 | ---- |
| Chronic Obstructive Pulmonary Disease..... | 4               | 0.0                 | 8.1  | ---- | 0.0     | 14.4 | ---- | 0.0      | 18.6 | ---- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 1.7  | ---- | 33.3    | 3.8  | ---- | 33.3     | 5.9  | ---- |
| Stroke.....                                | 15              | 46.7                | 20.0 | ---- | 46.7    | 26.5 | ---- | 46.7     | 30.8 | ---- |
| Hip Fracture.....                          | 6               | 16.7                | 6.6  | ---- | 50.0    | 11.9 | ---- | 50.0     | 16.6 | ---- |
| Sepsis.....                                | 1               | 100.0               | 40.8 | ---- | 100.0   | 44.3 | ---- | 100.0    | 47.9 | ---- |
| PROCEDURES:                                |                 |                     |      |      |         |      |      |          |      |      |
| Angioplasty.....                           | 0               |                     |      |      |         |      |      |          |      |      |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |      |         |      |      |          |      |      |
| Initial Pacemaker Insertion.....           | 0               |                     |      |      |         |      |      |          |      |      |
| Carotid Endarterectomy.....                | 0               |                     |      |      |         |      |      |          |      |      |
| Hip Replacement/Reconstruction.....        | 4               | 0.0                 | 5.4  | ---- | 75.0    | 9.9  | ---- | 75.0     | 14.4 | ---- |
| Open Reduction of Hip Fracture.....        | 1               | 100.0               | 8.3  | ---- | 100.0   | 13.9 | ---- | 100.0    | 18.7 | ---- |
| Prostatectomy.....                         | 11              | 0.0                 | 0.8  | ---- | 0.0     | 1.9  | ---- | 0.0      | 3.4  | ---- |
| Cholecystectomy.....                       | 4               | 0.0                 | 1.1  | ---- | 0.0     | 1.9  | ---- | 0.0      | 2.5  | ---- |
| Hysterectomy.....                          | 3               | 0.0                 | 2.6  | ---- | 0.0     | 3.8  | ---- | 0.0      | 5.0  | ---- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# VETERANS MEMORIAL HOSPITAL

Medicare Provider Number: 160023

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.4 years  
Proportion female..... 58.1 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 88.6 %  
Transferred from skilled nursing facility..... 0.8 %  
Admitted for elective procedure..... 4.5 %  
Admitted for emergency..... 89.0 %

### COMORBIDITIES:

Cancer..... 9.3 %  
Chronic cardiovascular disease..... 40.2 %  
Chronic liver disease..... 0.0 %  
Chronic renal disease..... 2.0 %  
Chronic pulmonary disease..... 12.6 %  
Cerebrovascular degeneration..... 9.8 %  
Diabetes mellitus..... 7.7 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 83.0%  
State ..... 14.4%  
Outside State ..... 2.6%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 4.9 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 25  
Occupancy Rate ..... 48.0 %  
Ownership/Control..... Local Government  
Medicare Discharges ..... 45.7 %  
Case Mix Index (CMI) ..... 1.0865

### STAFFING:

Total Number of Physicians..... 5  
Percent of Physicians Board  
Certified Specialists ..... 60.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 18  
Licensed Practical Nurses ..... 8

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... No  
Medical/Surgical Intensive Care ..... Yes  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# VIRGINIA GAY HOSPITAL

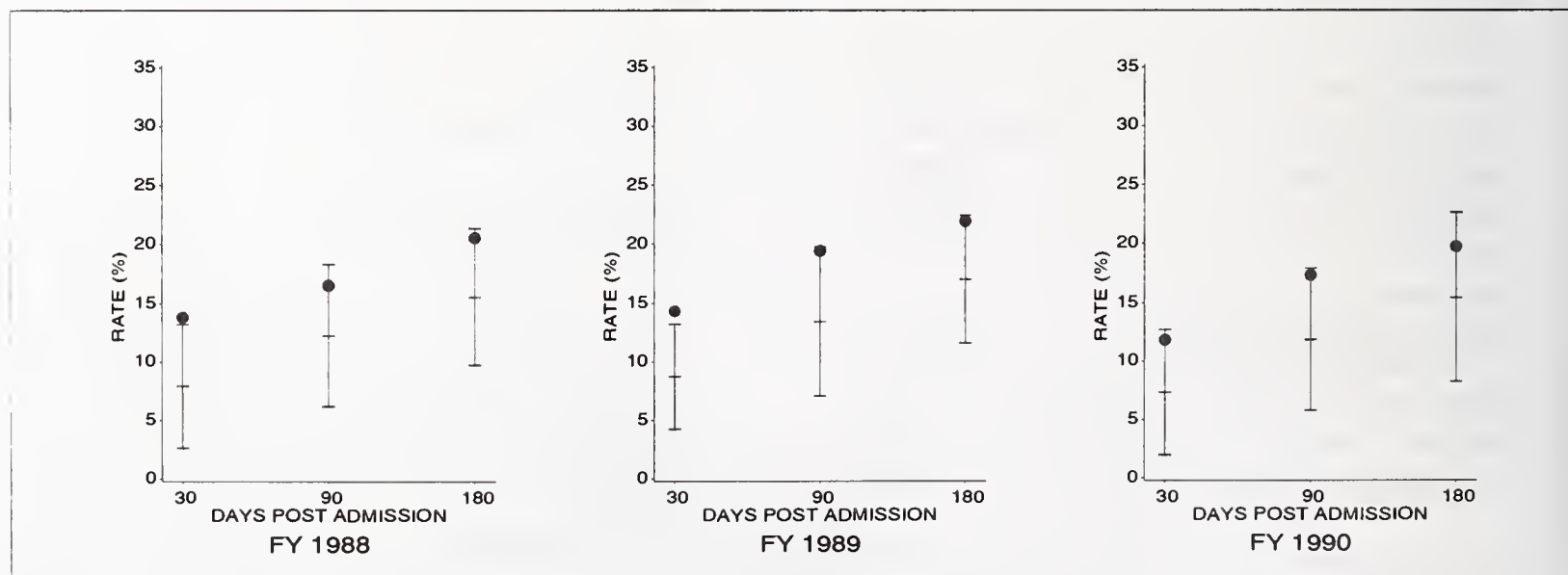
502 N NINTH AVE  
VINTON, IA 52349  
Medicare Provider Number: 160093

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 254                | 11.8                | 7.3  | 2.7   | 17.3    | 11.8 | 3.0   | 19.7     | 15.4 | 3.6   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 9                  | 66.7                | 22.6 | ----- | 66.7    | 26.3 | ----- | 66.7     | 29.3 | ----- |
| Congestive Heart Failure.....              | 29                 | 24.1                | 14.6 | ----- | 24.1    | 23.2 | ----- | 24.1     | 29.7 | ----- |
| Pneumonia/Influenza.....                   | 14                 | 14.3                | 11.9 | ----- | 28.6    | 16.8 | ----- | 35.7     | 20.6 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 11                 | 9.1                 | 3.6  | ----- | 27.3    | 7.5  | ----- | 27.3     | 11.1 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 0.7  | ----- | 0.0     | 2.0  | ----- | 0.0      | 3.8  | ----- |
| Stroke.....                                | 14                 | 14.3                | 14.9 | ----- | 21.4    | 21.6 | ----- | 21.4     | 25.4 | ----- |
| Hip Fracture.....                          | 3                  | 0.0                 | 2.5  | ----- | 0.0     | 5.0  | ----- | 0.0      | 7.0  | ----- |
| Sepsis.....                                | 0                  |                     |      |       |         |      |       |          |      |       |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0                  |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 3                  | 0.0                 | 0.7  | ----- | 0.0     | 1.2  | ----- | 0.0      | 1.7  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# VIRGINIA GAY HOSPITAL

Medicare Provider Number: 160093

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.9 years  
Proportion female..... 56.7 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 78.3 %  
Transferred from skilled nursing facility..... 0.0 %  
Admitted for elective procedure..... 94.5 %  
Admitted for emergency..... 0.0 %

### COMORBIDITIES:

Cancer..... 5.9 %  
Chronic cardiovascular disease..... 36.6 %  
Chronic liver disease..... 0.8 %  
Chronic renal disease..... 2.4 %  
Chronic pulmonary disease..... 13.8 %  
Cerebrovascular degeneration..... 5.9 %  
Diabetes mellitus..... 9.4 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 84.8%  
State ..... 13.3%  
Outside State ..... 1.9%  
Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 6.3 Days  
State ..... 7.6 Days  
National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 89  
Occupancy Rate ..... 76.0 %  
Ownership/Control..... Private, Non-Profit  
Medicare Discharges ..... 90.8 %  
Case Mix Index (CMI) ..... 0.9518

### STAFFING:

Total Number of Physicians..... 4  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns ..... 0  
Registered Nurses..... 10  
Licensed Practical Nurses ..... 4

### SPECIALTY SERVICES:

Burn Unit ..... No  
Cardiac Intensive Care ..... No  
Comprehensive Geriatric ..... No  
Hospice Care ..... Yes  
Medical/Surgical Intensive Care ..... No  
Organ/Tissue Transplant ..... No  
Other Intensive Care ..... No  
Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No  
Rehabilitation..... No  
Psychiatric ..... No  
Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# WASHINGTON COUNTY HOSPITAL

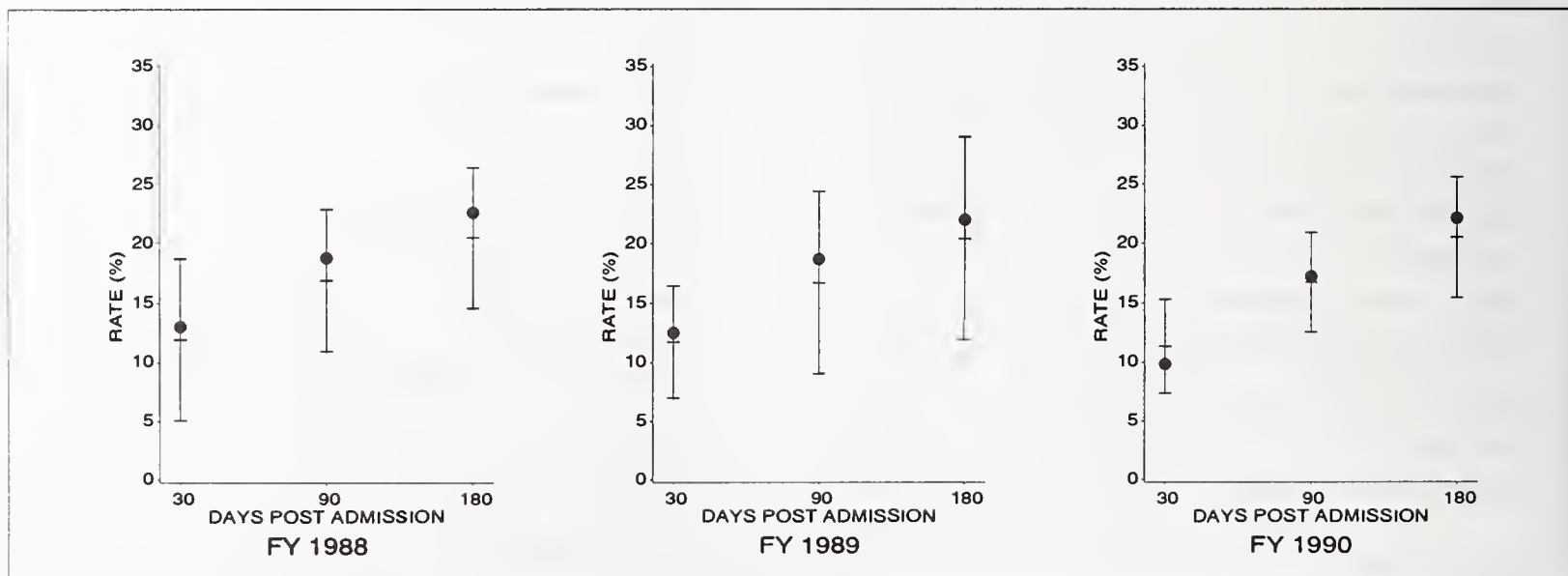
400 EAST POLK STREET  
WASHINGTON, IA 52353  
Medicare Provider Number: 160012

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 326             | 9.8                 | 11.3 | 2.0   | 17.2    | 16.7 | 2.1   | 22.1     | 20.5 | 2.6   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 7               | 42.9                | 36.0 | ----- | 57.1    | 39.8 | ----- | 57.1     | 43.1 | ----- |
| Congestive Heart Failure.....              | 28              | 10.7                | 14.4 | ----- | 35.7    | 22.7 | ----- | 42.9     | 28.8 | ----- |
| Pneumonia/Influenza.....                   | 45              | 8.9                 | 14.5 | ----- | 24.4    | 20.0 | ----- | 26.7     | 24.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 9               | 33.3                | 7.6  | ----- | 33.3    | 13.8 | ----- | 33.3     | 18.5 | ----- |
| Transient Cerebral Ischemia.....           | 3               | 0.0                 | 1.4  | ----- | 0.0     | 3.7  | ----- | 0.0      | 6.7  | ----- |
| Stroke.....                                | 16              | 12.5                | 18.8 | ----- | 18.8    | 25.3 | ----- | 25.0     | 29.5 | ----- |
| Hip Fracture.....                          | 0               |                     |      |       |         |      |       |          |      |       |
| Sepsis.....                                | 15              | 13.3                | 33.2 | ----- | 26.7    | 40.5 | ----- | 40.0     | 44.7 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Open Reduction of Hip Fracture.....        | 0               |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 0               |                     |      |       |         |      |       |          |      |       |
| Cholecystectomy.....                       | 10              | 0.0                 | 2.2  | ----- | 0.0     | 3.5  | ----- | 0.0      | 4.5  | ----- |
| Hysterectomy.....                          | 0               |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE (± 2 SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# WASHINGTON COUNTY HOSPITAL

Medicare Provider Number: 160012

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

| DEMOGRAPHICS:                                  |            | COMORBIDITIES:                      |        |
|------------------------------------------------|------------|-------------------------------------|--------|
| Average age at admission.....                  | 77.6 years | Cancer.....                         | 8.3 %  |
| Proportion female.....                         | 58.6 %     | Chronic cardiovascular disease..... | 39.6 % |
| ADMISSION SOURCES/TYPES:                       |            | Chronic liver disease.....          | 0.0 %  |
| Referred by personal or HMO physician.....     | 28.5 %     | Chronic renal disease.....          | 0.6 %  |
| Transferred from skilled nursing facility..... | 0.3 %      | Chronic pulmonary disease.....      | 16.6 % |
| Admitted for elective procedure.....           | 8.3 %      | Cerebrovascular degeneration.....   | 5.5 %  |
| Admitted for emergency.....                    | 0.0 %      | Diabetes mellitus.....              | 6.7 %  |

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

| ORIGIN OF MEDICARE PATIENT ADMISSION: |        | MEDICARE AVERAGE LENGTH OF STAY: |          |
|---------------------------------------|--------|----------------------------------|----------|
| County/City .....                     | 77.3%  | Hospital .....                   | 7.7 Days |
| State .....                           | 21.9%  | State .....                      | 7.6 Days |
| Outside State .....                   | 0.8%   | National .....                   | 8.6 Days |
| Total .....                           | 100.0% |                                  |          |

## HOSPITAL CHARACTERISTICS\*

|                                                             |                  |                                          |     |
|-------------------------------------------------------------|------------------|------------------------------------------|-----|
| SOURCE: AHA Annual Survey of Hospitals** - Survey Year 1990 |                  |                                          |     |
| PROFILE:                                                    |                  | SPECIALTY SERVICES:                      |     |
| Total Beds .....                                            | 83               | Burn Unit .....                          | No  |
| Occupancy Rate .....                                        | 72.0 %           | Cardiac Intensive Care .....             | No  |
| Ownership/Control.....                                      | Local Government | Comprehensive Geriatric .....            | No  |
| Medicare Discharges .....                                   | 42.1 %           | Hospice Care .....                       | No  |
| Case Mix Index (CMI) .....                                  | 1.1488           | Medical/Surgical Intensive Care .....    | Yes |
| STAFFING:                                                   |                  | Organ/Tissue Transplant .....            | No  |
| Total Number of Physicians.....                             | 12               | Other Intensive Care .....               | No  |
| Percent of Physicians Board<br>Certified Specialists .....  | 16.7 %           | Trauma Center .....                      | No  |
| Medical Residents/Interns .....                             | 0                | OTHER SPECIALTY/HOSPITAL-BASED SERVICES: |     |
| Registered Nurses.....                                      | 34               | Alcohol/Drug .....                       | No  |
| Licensed Practical Nurses.....                              | 4                | Rehabilitation.....                      | No  |
|                                                             |                  | Psychiatric .....                        | No  |
|                                                             |                  | Medicare Swing Beds .....                | Yes |
| ** Except for CMI                                           |                  |                                          |     |

\*\* Except for CMI

\* Not used in calculating mortality rates

# WAVERLY MUNICIPAL HOSPITAL

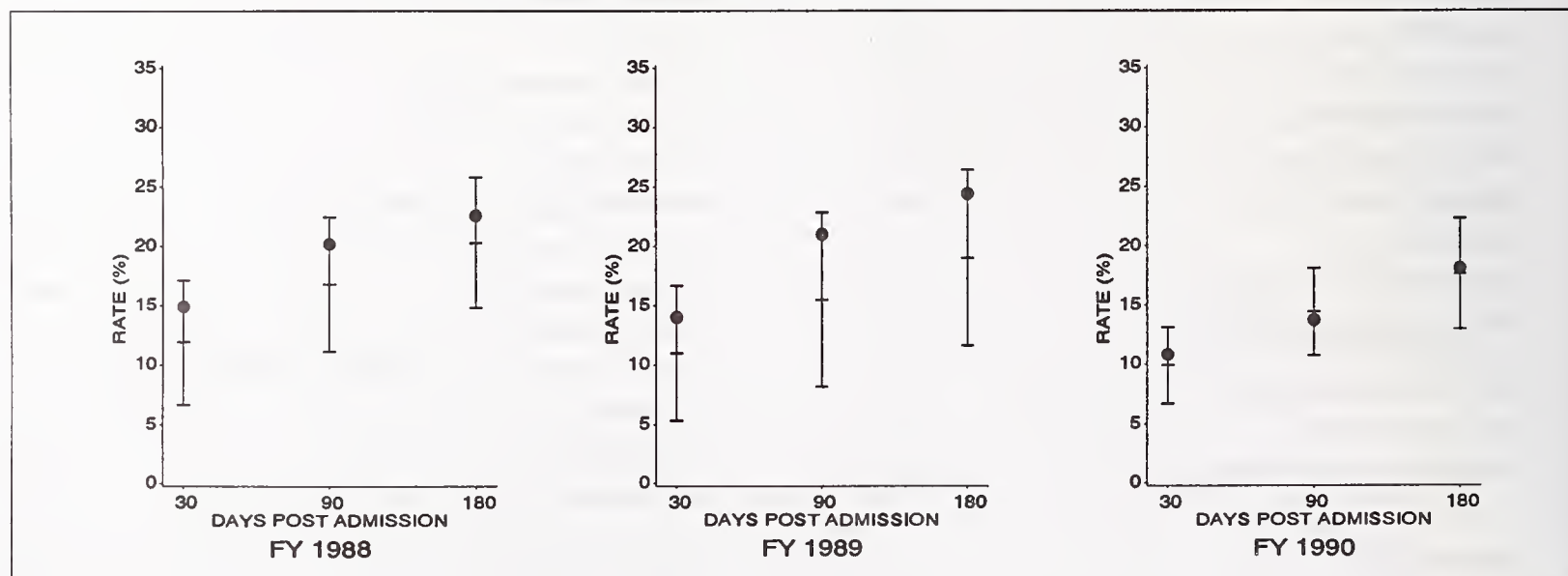
312 9TH ST SW  
WAVERLY, IA 50677  
Medicare Provider Number: 160094

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 371                | 10.8                | 9.9  | 1.6   | 13.7    | 14.4 | 1.9   | 18.1     | 17.6 | 2.3   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 17                 | 23.5                | 35.4 | ----- | 23.5    | 38.5 | ----- | 23.5     | 41.6 | ----- |
| Congestive Heart Failure.....              | 17                 | 23.5                | 16.6 | ----- | 29.4    | 25.8 | ----- | 47.1     | 32.2 | ----- |
| Pneumonia/Influenza.....                   | 30                 | 10.0                | 13.2 | ----- | 10.0    | 18.3 | ----- | 16.7     | 21.2 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 7                  | 14.3                | 5.7  | ----- | 14.3    | 10.2 | ----- | 14.3     | 14.0 | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 1.9  | ----- | 33.3    | 4.4  | ----- | 33.3     | 7.6  | ----- |
| Stroke.....                                | 17                 | 29.4                | 21.3 | ----- | 29.4    | 27.7 | ----- | 35.3     | 31.8 | ----- |
| Hip Fracture.....                          | 17                 | 5.9                 | 6.0  | ----- | 5.9     | 10.7 | ----- | 11.8     | 13.9 | ----- |
| Sepsis.....                                | 4                  | 75.0                | 55.1 | ----- | 75.0    | 65.1 | ----- | 75.0     | 68.5 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 12                 | 0.0                 | 3.1  | ----- | 0.0     | 5.7  | ----- | 8.3      | 7.7  | ----- |
| Open Reduction of Hip Fracture.....        | 2                  | 0.0                 | 4.8  | ----- | 0.0     | 9.7  | ----- | 0.0      | 13.4 | ----- |
| Prostatectomy.....                         | 36                 | 0.0                 | 0.8  | ----- | 0.0     | 2.0  | ----- | 5.6      | 3.4  | ----- |
| Cholecystectomy.....                       | 2                  | 0.0                 | 1.4  | ----- | 0.0     | 2.6  | ----- | 0.0      | 3.7  | ----- |
| Hysterectomy.....                          | 0                  |                     |      |       |         |      |       |          |      |       |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# WAVERLY MUNICIPAL HOSPITAL

Medicare Provider Number: 160094

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 78.0 years

Proportion female..... 54.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 66.8 %

Transferred from skilled nursing facility..... 3.2 %

Admitted for elective procedure..... 2.2 %

Admitted for emergency..... 82.5 %

### COMORBIDITIES:

Cancer..... 5.9 %

Chronic cardiovascular disease..... 29.9 %

Chronic liver disease..... 1.1 %

Chronic renal disease..... 1.6 %

Chronic pulmonary disease..... 12.9 %

Cerebrovascular degeneration..... 4.6 %

Diabetes mellitus..... 5.9 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City ..... 61.2%

State ..... 37.2%

Outside State ..... 1.6%

Total ..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital ..... 5.2 Days

State ..... 7.6 Days

National ..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds ..... 45

Occupancy Rate ..... 31.0 %

Ownership/Control..... Local Government

Medicare Discharges ..... 44.9 %

Case Mix Index (CMI) ..... 1.1067

### STAFFING:

Total Number of Physicians..... 8

Percent of Physicians Board  
Certified Specialists .....(Not Available)

Medical Residents/Interns ..... 0

Registered Nurses..... 19

Licensed Practical Nurses..... 8

### SPECIALTY SERVICES:

Burn Unit ..... No

Cardiac Intensive Care ..... No

Comprehensive Geriatric ..... No

Hospice Care ..... Yes

Medical/Surgical Intensive Care ..... No

Organ/Tissue Transplant ..... No

Other Intensive Care ..... No

Trauma Center ..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug ..... No

Rehabilitation..... No

Psychiatric ..... No

Medicare Swing Beds ..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates



# WAYNE COUNTY HOSPITAL

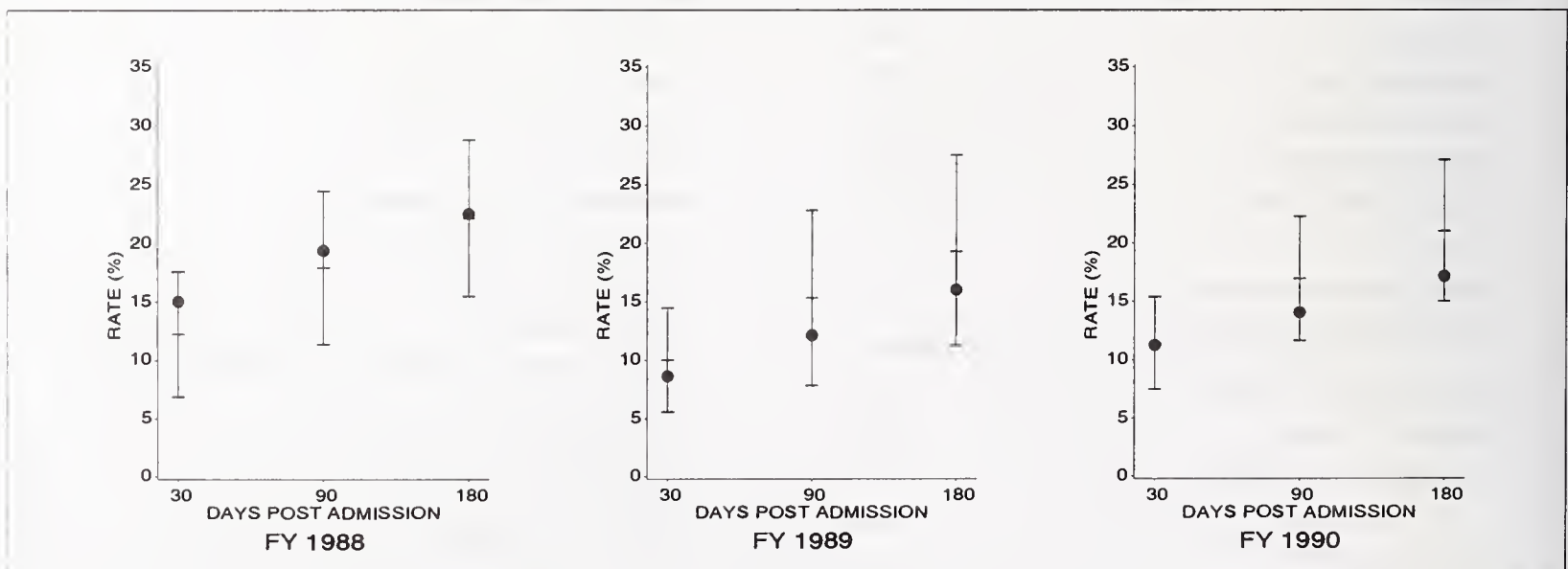
417 S EAST ST  
CORYDON, IA 50060  
Medicare Provider Number: 160113

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 258                | 11.2                | 11.4 | 2.0   | 14.0    | 16.9 | 2.7   | 17.1     | 21.0 | 3.0   |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 5                  | 60.0                | 37.8 | ----- | 60.0    | 41.7 | ----- | 60.0     | 45.7 | ----- |
| Congestive Heart Failure.....              | 14                 | 14.3                | 18.6 | ----- | 14.3    | 28.0 | ----- | 21.4     | 34.6 | ----- |
| Pneumonia/Influenza.....                   | 26                 | 11.5                | 18.6 | ----- | 19.2    | 25.9 | ----- | 19.2     | 31.0 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 3                  | 0.0                 | 3.5  | ----- | 0.0     | 6.9  | ----- | 0.0      | 9.7  | ----- |
| Transient Cerebral Ischemia.....           | 3                  | 0.0                 | 2.6  | ----- | 0.0     | 6.2  | ----- | 0.0      | 9.8  | ----- |
| Stroke.....                                | 9                  | 33.3                | 30.1 | ----- | 33.3    | 38.0 | ----- | 33.3     | 42.9 | ----- |
| Hip Fracture.....                          | 3                  | 0.0                 | 11.0 | ----- | 33.3    | 20.1 | ----- | 66.7     | 26.9 | ----- |
| Sepsis.....                                | 3                  | 0.0                 | 30.7 | ----- | 0.0     | 36.6 | ----- | 66.7     | 40.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0                  |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0                  |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0                  |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0                  |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 1                  | 0.0                 | 13.3 | ----- | 0.0     | 25.0 | ----- | 0.0      | 34.3 | ----- |
| Open Reduction of Hip Fracture.....        | 0                  |                     |      |       |         |      |       |          |      |       |
| Prostatectomy.....                         | 3                  | 0.0                 | 1.0  | ----- | 0.0     | 2.2  | ----- | 0.0      | 3.8  | ----- |
| Cholecystectomy.....                       | 3                  | 0.0                 | 1.1  | ----- | 0.0     | 2.0  | ----- | 0.0      | 2.5  | ----- |
| Hysterectomy.....                          | 3                  | 0.0                 | 0.2  | ----- | 0.0     | 0.5  | ----- | 0.0      | 0.8  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES



# WAYNE COUNTY HOSPITAL

Medicare Provider Number: 160113

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.5 years

Proportion female..... 56.2 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 57.4 %

Transferred from skilled nursing facility..... 0.8 %

Admitted for elective procedure..... 1.9 %

Admitted for emergency..... 0.8 %

### COMORBIDITIES:

Cancer..... 8.5 %

Chronic cardiovascular disease..... 45.0 %

Chronic liver disease..... 0.4 %

Chronic renal disease..... 3.9 %

Chronic pulmonary disease..... 14.3 %

Cerebrovascular degeneration..... 8.5 %

Diabetes mellitus..... 12.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 83.3%

State..... 7.0%

Outside State..... 9.7%

Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 4.9 Days

State..... 7.6 Days

National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 28

Occupancy Rate..... 39.0 %

Ownership/Control..... Local Government

Medicare Discharges..... 61.7 %

Case Mix Index (CMI)..... 0.9749

### STAFFING:

Total Number of Physicians..... 3

Percent of Physicians Board  
Certified Specialists..... 100.0 %

Medical Residents/Interns..... 0

Registered Nurses..... 15

Licensed Practical Nurses..... 8

### SPECIALTY SERVICES:

Burn Unit..... No

Cardiac Intensive Care..... No

Comprehensive Geriatric..... Yes

Hospice Care..... No

Medical/Surgical Intensive Care..... Yes

Organ/Tissue Transplant..... No

Other Intensive Care..... No

Trauma Center..... Yes

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No

Rehabilitation..... No

Psychiatric..... No

Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# WINNESHIEK COUNTY MEMORIAL HOSPITAL

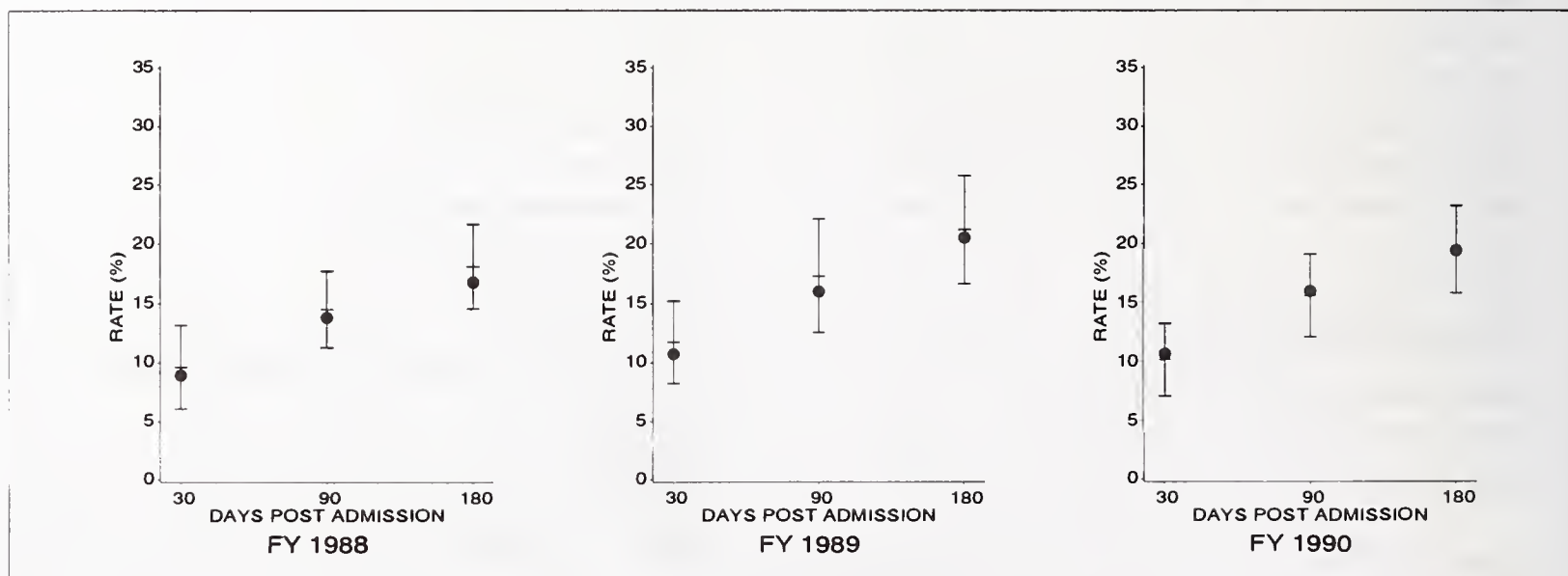
901 MONTGOMERY ST  
DECORAH, IA 52101  
Medicare Provider Number: 160081

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|-----------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                 | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                 | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 469             | 10.7                | 10.2 | 1.5   | 16.0    | 15.6 | 1.7   | 19.4     | 19.5 | 1.8   |
| CONDITIONS:                                |                 |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 17              | 11.8                | 29.9 | ----- | 17.6    | 33.3 | ----- | 29.4     | 36.8 | ----- |
| Congestive Heart Failure.....              | 30              | 20.0                | 15.6 | ----- | 26.7    | 24.6 | ----- | 30.0     | 31.0 | ----- |
| Pneumonia/Influenza.....                   | 54              | 14.8                | 16.1 | 5.8   | 20.4    | 22.0 | 6.5   | 22.2     | 25.8 | 7.0   |
| Chronic Obstructive Pulmonary Disease..... | 6               | 0.0                 | 7.7  | ----- | 0.0     | 13.6 | ----- | 0.0      | 17.2 | ----- |
| Transient Cerebral Ischemia.....           | 4               | 0.0                 | 1.9  | ----- | 0.0     | 4.5  | ----- | 0.0      | 7.8  | ----- |
| Stroke.....                                | 17              | 29.4                | 20.3 | ----- | 35.3    | 28.1 | ----- | 35.3     | 32.4 | ----- |
| Hip Fracture.....                          | 19              | 0.0                 | 5.2  | ----- | 5.3     | 9.4  | ----- | 10.5     | 12.7 | ----- |
| Sepsis.....                                | 3               | 33.3                | 26.5 | ----- | 33.3    | 31.7 | ----- | 33.3     | 37.5 | ----- |
| PROCEDURES:                                |                 |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 0               |                     |      |       |         |      |       |          |      |       |
| Coronary Artery Bypass Graft.....          | 0               |                     |      |       |         |      |       |          |      |       |
| Initial Pacemaker Insertion.....           | 0               |                     |      |       |         |      |       |          |      |       |
| Carotid Endarterectomy.....                | 0               |                     |      |       |         |      |       |          |      |       |
| Hip Replacement/Reconstruction.....        | 7               | 0.0                 | 3.7  | ----- | 0.0     | 7.3  | ----- | 14.3     | 10.5 | ----- |
| Open Reduction of Hip Fracture.....        | 9               | 0.0                 | 5.8  | ----- | 11.1    | 10.7 | ----- | 11.1     | 14.4 | ----- |
| Prostatectomy.....                         | 6               | 0.0                 | 2.3  | ----- | 0.0     | 4.8  | ----- | 0.0      | 7.2  | ----- |
| Cholecystectomy.....                       | 8               | 12.5                | 1.7  | ----- | 12.5    | 3.0  | ----- | 12.5     | 4.0  | ----- |
| Hysterectomy.....                          | 4               | 0.0                 | 0.5  | ----- | 0.0     | 1.3  | ----- | 0.0      | 2.2  | ----- |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

### OBSERVED MORTALITY RATE (•) AND PREDICTED RANGE ( $\pm 2$ SD) FOR MEDICARE PATIENT ADMISSIONS FOR ALL CAUSES





# WINNESHIEK COUNTY MEMORIAL HOSPITAL

Medicare Provider Number: 160081

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

### DEMOGRAPHICS:

Average age at admission..... 79.4 years  
Proportion female..... 57.4 %

### ADMISSION SOURCES/TYPES:

Referred by personal or HMO physician..... 85.9 %  
Transferred from skilled nursing facility..... 0.6 %  
Admitted for elective procedure..... 1.1 %  
Admitted for emergency..... 30.1 %

### COMORBIDITIES:

Cancer..... 7.2 %  
Chronic cardiovascular disease..... 41.2 %  
Chronic liver disease..... 0.4 %  
Chronic renal disease..... 2.8 %  
Chronic pulmonary disease..... 13.6 %  
Cerebrovascular degeneration..... 7.5 %  
Diabetes mellitus..... 5.8 %

## ORIGIN AND LENGTH OF STAY OF MEDICARE ADMISSIONS\*

### ORIGIN OF MEDICARE PATIENT ADMISSION:

County/City..... 82.7%  
State..... 8.0%  
Outside State..... 9.3%  
Total..... 100.0%

### MEDICARE AVERAGE LENGTH OF STAY:

Hospital..... 5.2 Days  
State..... 7.6 Days  
National..... 8.6 Days

## HOSPITAL CHARACTERISTICS\*

SOURCE: AHA Annual Survey of Hospitals\*\* - Survey Year 1990

### PROFILE:

Total Beds..... 83  
Occupancy Rate..... 26.0 %  
Ownership/Control..... Local Government  
Medicare Discharges..... 53.4 %  
Case Mix Index (CMI)..... 1.1209

### STAFFING:

Total Number of Physicians..... 15  
Percent of Physicians Board  
Certified Specialists..... 100.0 %  
Medical Residents/Interns..... 0  
Registered Nurses..... 41  
Licensed Practical Nurses..... 12

### SPECIALTY SERVICES:

Burn Unit..... No  
Cardiac Intensive Care..... No  
Comprehensive Geriatric..... No  
Hospice Care..... No  
Medical/Surgical Intensive Care..... Yes  
Organ/Tissue Transplant..... No  
Other Intensive Care..... No  
Trauma Center..... No

### OTHER SPECIALTY/HOSPITAL-BASED SERVICES:

Alcohol/Drug..... No  
Rehabilitation..... No  
Psychiatric..... No  
Medicare Swing Beds..... Yes

\*\* Except for CMI

\* Not used in calculating mortality rates

# IOWA

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |     |         |      |     |          |      |     |
|--------------------------------------------|--------------------|---------------------|------|-----|---------|------|-----|----------|------|-----|
|                                            |                    | 30 DAYS             |      |     | 90 DAYS |      |     | 180 DAYS |      |     |
|                                            |                    | OBS                 | PRED | SD* | OBS     | PRED | SD* | OBS      | PRED | SD* |
| ALL CAUSES.....                            | 90,996             | 8.7                 | 8.2  | 0.1 | 13.1    | 12.6 | 0.3 | 16.3     | 15.9 | 0.3 |
| CONDITIONS:                                |                    |                     |      |     |         |      |     |          |      |     |
| Acute Myocardial Infarction.....           | 3,004              | 28.9                | 26.0 | 0.9 | 32.8    | 29.2 | 1.7 | 35.3     | 32.1 | 1.5 |
| Congestive Heart Failure.....              | 4,308              | 15.6                | 14.8 | 0.9 | 25.0    | 23.4 | 1.0 | 31.4     | 29.7 | 1.1 |
| Pneumonia/Influenza.....                   | 4,978              | 15.2                | 14.5 | 0.9 | 21.1    | 20.1 | 0.9 | 24.8     | 23.9 | 0.9 |
| Chronic Obstructive Pulmonary Disease..... | 1,518              | 9.4                 | 7.1  | 1.0 | 15.3    | 12.6 | 1.1 | 21.1     | 16.9 | 1.5 |
| Transient Cerebral Ischemia.....           | 1,288              | 2.5                 | 1.7  | 0.5 | 4.2     | 4.0  | 0.6 | 6.3      | 6.5  | 0.8 |
| Stroke.....                                | 3,366              | 19.0                | 19.0 | 0.7 | 24.6    | 25.2 | 0.8 | 28.0     | 29.1 | 0.9 |
| Hip Fracture.....                          | 2,718              | 7.1                 | 6.3  | 0.6 | 11.6    | 11.2 | 0.6 | 14.5     | 14.7 | 0.7 |
| Sepsis.....                                | 1,053              | 24.1                | 24.8 | 1.5 | 32.8    | 32.7 | 3.8 | 37.0     | 37.5 | 3.2 |
| PROCEDURES:                                |                    |                     |      |     |         |      |     |          |      |     |
| Angioplasty.....                           | 935                | 3.7                 | 3.4  | 0.7 | 5.3     | 4.4  | 0.8 | 6.1      | 5.4  | 0.8 |
| Coronary Artery Bypass Graft.....          | 1,074              | 5.1                 | 5.3  | 0.7 | 7.3     | 7.4  | 0.9 | 8.3      | 8.4  | 1.1 |
| Initial Pacemaker Insertion.....           | 539                | 3.5                 | 3.4  | 0.8 | 6.1     | 6.6  | 1.5 | 8.9      | 9.5  | 1.7 |
| Carotid Endarterectomy.....                | 278                | 1.8                 | 1.6  | 0.8 | 2.5     | 3.0  | 1.2 | 4.3      | 4.3  | 1.2 |
| Hip Replacement/Reconstruction.....        | 2,177              | 3.6                 | 3.0  | 0.7 | 6.2     | 5.5  | 0.7 | 8.0      | 7.5  | 0.7 |
| Open Reduction of Hip Fracture.....        | 1,202              | 5.7                 | 5.9  | 0.8 | 10.3    | 10.7 | 1.0 | 12.9     | 14.2 | 1.5 |
| Prostatectomy.....                         | 2,613              | 0.9                 | 1.0  | 0.3 | 2.0     | 2.3  | 0.4 | 3.6      | 4.0  | 0.5 |
| Cholecystectomy.....                       | 1,942              | 2.2                 | 2.3  | 0.5 | 4.1     | 4.3  | 0.9 | 5.1      | 5.9  | 0.9 |
| Hysterectomy.....                          | 780                | 0.4                 | 0.6  | 0.3 | 0.6     | 1.3  | 0.5 | 1.4      | 2.1  | 0.8 |

\* The Standard Deviation (SD) is not calculated if the number of deaths or cases is too small for satisfactory estimation.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

|                                                |            |                                     |        |
|------------------------------------------------|------------|-------------------------------------|--------|
| DEMOGRAPHICS:                                  |            | COMORBIDITIES:                      |        |
| Average age at admission.....                  | 75.5 years | Cancer.....                         | 7.6 %  |
| Proportion female.....                         | 56.0 %     | Chronic cardiovascular disease..... | 36.2 % |
| ADMISSION SOURCES/TYPES:                       |            | Chronic liver disease.....          | 0.7 %  |
| Referred by personal or HMO physician.....     | 62.9 %     | Chronic renal disease.....          | 2.8 %  |
| Transferred from skilled nursing facility..... | 0.5 %      | Chronic pulmonary disease.....      | 15.1 % |
| Admitted for elective procedure.....           | 31.1 %     | Cerebrovascular degeneration.....   | 4.0 %  |
| Admitted for emergency.....                    | 32.0 %     | Diabetes mellitus.....              | 7.0 %  |

# ALL STATES

## FY 1990 MEDICARE HOSPITAL MORTALITY RATES

| CATEGORY                                   | NUMBER<br>OF CASES | MORTALITY RATES (%) |      |       |         |      |       |          |      |       |
|--------------------------------------------|--------------------|---------------------|------|-------|---------|------|-------|----------|------|-------|
|                                            |                    | 30 DAYS             |      |       | 90 DAYS |      |       | 180 DAYS |      |       |
|                                            |                    | OBS                 | PRED | SD*   | OBS     | PRED | SD*   | OBS      | PRED | SD*   |
| ALL CAUSES.....                            | 6,542,299          | 9.0                 | 9.0  | ----- | 13.9    | 13.7 | ----- | 17.3     | 17.1 | ----- |
| CONDITIONS:                                |                    |                     |      |       |         |      |       |          |      |       |
| Acute Myocardial Infarction.....           | 204,673            | 25.3                | 25.6 | ----- | 29.5    | 28.7 | ----- | 32.1     | 31.4 | ----- |
| Congestive Heart Failure.....              | 335,426            | 14.3                | 14.4 | ----- | 22.9    | 22.8 | ----- | 29.2     | 29.0 | ----- |
| Pneumonia/Influenza.....                   | 313,303            | 15.3                | 15.5 | ----- | 21.5    | 21.3 | ----- | 25.5     | 25.1 | ----- |
| Chronic Obstructive Pulmonary Disease..... | 107,387            | 8.0                 | 8.0  | ----- | 14.1    | 14.0 | ----- | 18.7     | 18.5 | ----- |
| Transient Cerebral Ischemia.....           | 96,866             | 1.8                 | 1.8  | ----- | 4.0     | 4.0  | ----- | 6.4      | 6.5  | ----- |
| Stroke.....                                | 241,803            | 19.7                | 19.8 | ----- | 26.5    | 26.3 | ----- | 30.4     | 30.0 | ----- |
| Hip Fracture.....                          | 163,386            | 6.7                 | 6.5  | ----- | 11.7    | 11.5 | ----- | 15.1     | 15.0 | ----- |
| Sepsis.....                                | 80,999             | 25.6                | 25.7 | ----- | 34.6    | 33.8 | ----- | 39.8     | 38.6 | ----- |
| PROCEDURES:                                |                    |                     |      |       |         |      |       |          |      |       |
| Angioplasty.....                           | 58,026             | 3.0                 | 3.0  | ----- | 4.0     | 4.0  | ----- | 5.0      | 4.9  | ----- |
| Coronary Artery Bypass Graft.....          | 80,798             | 6.0                 | 5.7  | ----- | 8.3     | 8.1  | ----- | 9.5      | 9.2  | ----- |
| Initial Pacemaker Insertion.....           | 49,642             | 3.2                 | 3.3  | ----- | 6.5     | 6.3  | ----- | 9.1      | 9.1  | ----- |
| Carotid Endarterectomy.....                | 29,990             | 1.6                 | 1.5  | ----- | 2.8     | 2.8  | ----- | 4.0      | 4.1  | ----- |
| Hip Replacement/Reconstruction.....        | 122,156            | 3.4                 | 3.2  | ----- | 6.2     | 5.9  | ----- | 8.1      | 8.0  | ----- |
| Open Reduction of Hip Fracture.....        | 80,075             | 6.1                 | 6.0  | ----- | 11.2    | 11.0 | ----- | 14.5     | 14.5 | ----- |
| Prostatectomy.....                         | 211,087            | 0.9                 | 1.0  | ----- | 2.2     | 2.3  | ----- | 3.7      | 3.8  | ----- |
| Cholecystectomy.....                       | 124,259            | 2.9                 | 2.7  | ----- | 5.0     | 4.9  | ----- | 6.5      | 6.5  | ----- |
| Hysterectomy.....                          | 53,905             | 0.7                 | 0.7  | ----- | 1.4     | 1.5  | ----- | 2.2      | 2.4  | ----- |

\* The Standard Deviation (SD) is not calculated.

## FY1990 VALUES FOR SELECTED EXPLANATORY FACTORS USED TO PREDICT MORTALITY RATES

|                                                |            |                                     |        |
|------------------------------------------------|------------|-------------------------------------|--------|
| DEMOGRAPHICS:                                  |            | COMORBIDITIES:                      |        |
| Average age at admission.....                  | 74.1 years | Cancer.....                         | 7.6 %  |
| Proportion female.....                         | 55.9 %     | Chronic cardiovascular disease..... | 36.6 % |
| ADMISSION SOURCES/TYPES:                       |            | Chronic liver disease.....          | 1.0 %  |
| Referred by personal or HMO physician.....     | 46.1 %     | Chronic renal disease.....          | 3.4 %  |
| Transferred from skilled nursing facility..... | 1.1 %      | Chronic pulmonary disease.....      | 15.0 % |
| Admitted for elective procedure.....           | 22.0 %     | Cerebrovascular degeneration.....   | 3.9 %  |
| Admitted for emergency.....                    | 46.5 %     | Diabetes mellitus.....              | 8.0 %  |





# **Hospital Comments**

Medicare Provider Number: 160101

March 6, 1992

Ms. Gail R. Wilensky, Ph.D., Administration  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

To Whom It May Concern:

Upon review of the HCFA 1990 Medicare Hospital Mortality Rates report recently submitted to Broadlawns Medical Center, we would like to offer the following information for published comment in the Medicare Hospital Information - 1992 publication.

Beginning of Comments for Publication

Mortality Rate - Condition: Chronic Obstructive Pulmonary Disease: The mortality rate of 14.3% (6/14) reflected complicated cases. The first patient was reported to expire elsewhere and thus information as to cause of death is unavailable. The second patient was ventilator dependent with complicating diagnoses of pneumonia, gastrointestinal bleed, and uncontrolled diabetes mellitus. The third patient's course of treatment was complicated by a cardiopulmonary arrest, renal failure, congestive heart failure, and malnutrition.

The fourth patient was transferred to another hospital and later expired; cause of death after ten days, as listed in the obituary, was unrelated to the diagnosis of COPD; no other information regarding the patient's course of treatment after transfer is available to this medical center. The fifth patient was diagnosed with "end-stage" COPD on admission with complicating diagnoses of: respiratory failure, asthma, and bronchitis. The sixth and last patient was treated conservatively for pneumonia and COPD with family restrictions as to intubation and resuscitation.

Mortality Rate - Procedure: Cholecystectomy: The mortality rate of 20% (1/5) reflected an elderly patient with a principal diagnosis of "necrotizing pancreatitis." Other complicating diagnoses included: respiratory failure, chronic cholecystitis, and multiple organ failure.



Page Two

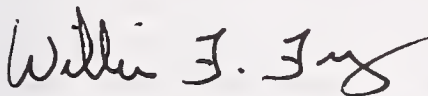
Medicare Provider Number: 160101

In review of the cases which were reflected in the 1991 HCFA mortality rates, it was determined that mortality outcomes were unavoidable given the severity of the patients' diagnoses and complicating conditions.

End of Comments for Publication

We appreciate your publication of the comments as given.

Sincerely,



Willis F. Fry, Executive Director

cc: Dennis Walter, M.D.  
Nancy Davis, R.R.A.



# Burgess Memorial Hospital

1600 Diamond Ave., Onawa, IA 51040 (712) 423-2311

March 10, 1992

Gail R. Wilensky, PH. D., Administrator  
Health Care Financing Administration/Medicare Hospital Information  
attn: Robert Moore  
Baltimore. MD 21207-5187

Dear Dr. Wilensky:

In reviewing the FY1990 Medicare Hospital Mortality Rates for Burgess Memorial Hospital, Onawa, Iowa, Medicare provider #160107, there are two areas that require comment.

1. Burgess Memorial Hospital showed an observed percentage mortality that was slightly higher than the predicted in two conditions.

Acute myocardial infarction had a 26.7% observed rate at 30 days. This means that four patients out of the 15 total patients in that category died within 30 days. Our data shows these four patients were ages 75, 84, 89, and 91 years of age. Two of these patients resided in area nursing homes and all had comorbid conditions contributing to their deaths. These additional facts show why Burgess Memorial Hospital's mortality is slightly higher for this condition.


The mortality rate was also slightly higher at 30 days post discharge for sepsis. This category only involved seven patients. A 28.6% mortality meant two deaths. These two patients were 84 and 96 years old. One resided in a nursing home, both had six comorbid conditions. Again, a logical explanation for their deaths.

The above examples also point out the difficulty in making accurate assumptions about data such as this without knowing all relevant facts.

2. The other area of concern involves including eleven patients in the 180 day mortality rates who died seven to eleven and a half months after discharge. This not only affects Burgess Memorial Hospital's overall mortality rate, but also those deaths included in specific categories. Of the eleven, two were included in stroke (c 6), one in congestive heart failure (c 2), and one in pneumonia (c 3).

Thank you for the opportunity to offer these comments. Burgess Memorial Hospital is interested that only accurate data be included in any studies such as these.

Very truly yours,

  
Sharon L. Taylor, RN, BSN  
Director of Community Affairs/  
Education/Wellness  
SLT/bm



A Managed Hospital of Iowa Methodist Health System

800 South Filmore  
Osceola, Iowa 50213  
515-342-2184

Gail Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, MD 21207-5187

#160049

ATTN: Robert Moore

In reviewing the FY 1990 mortality rates for Clarke County Hospital, the following comments are made.

1. The figures for Clarke County Hospital are based on randomly selected Medicare admissions. If a patient had multiple stays over the year time frame selected, only one of the multiple admits is selected for review, possibly skewing the statistics either way.
2. The precision and interpretability of the estimates are questionable when there are no deaths or fewer than 50 cases in a particular category. In all categories listed with the exception of "All Causes", there are both fewer than 50 deaths and fewer than 50 cases.
3. The average age of the admissions selected is 78.7 years while the average age of all deaths from this group is 84 years.
4. For the year 1990, there are 48 deaths in the study; of the 48, 24 (50%) of the deaths occurred at an institution other than Clarke County Hospital. Of these 24, 13 (54%) were admitted and discharged once at Clarke County Hospital with subsequent hospitalization(s) and death occurring at some other institution.
5. The average age of the 24 deaths experienced at Clarke County Hospital was 87. It is also worth noting that 22 of these 24 (91%) had requested Do Not Resuscitate orders.
6. These figures do not measure quality but rather identify differences in mortality among patient populations. The figures do not and can not explain why there may be differences in mortality among the various patient populations. The data is useful primarily to indicate whether further internal investigation is warranted through ongoing Quality Assessment and Peer Review activities.



7. It is our concern that the general public will not understand the relevance of the published data. That is, rather than taking the time to fully interpret the statistics and possible meaning, they will look at the overall numbers and derive their own conclusions, whether statistically relevant or not.

Sincerely,

A handwritten signature in cursive script that reads "Kris Baumgart". The signature is fluid and written in dark ink.

Kris Baumgart  
Administrator



# DAVENPORT MEDICAL CENTER

1111 West Kimberly Road, Davenport, Iowa 52806 • (319) 391-2020

March 6, 1992

Gail R. Wilenski, Ph.D., Administrator  
Healthcare Financing Administration  
Medicare Hospital Information  
Bureau of Data Management & Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

Medicare #:  
16-0104

Attn: Robert Moore

To Whom It May Concern,

In year's past HCFA mortality data has been collected and disseminated while hospitals around this Nation, ours included, have challenged the validity and usefulness of this information. Information to be published regarding fiscal year 1990 (October 1, 1989 - September 30, 1990) leads us to believe that our position must remain the same. That is, that the information presented has been poorly gathered, inappropriately recorded, and therefore, invalid in making any conclusion except a numerical analysis. For the most current report in question, it must be noted that discharges are understated by almost fifty percent. Additionally, the cause of death after discharge has no bearing whatsoever on the course of events while the patient was hospitalized. The population study, from Davenport Medical Center, is so small that by HCFA's own admission the numbers are too small to even calculate a standard deviation in most cases.

In conclusion, there should be absolutely no correlation between the quality of care given at a particular institution without consideration being given to innumerable factors which certainly are not considered in the HCFA mortality report. It is difficult to believe that "such information is also an important step in helping beneficiaries make more informed healthcare decisions" when such information is incomplete in both retrieval and qualitative scope.

Sincerely,

Glenn R. Sago,  
Chief Executive Officer



**MARY GREELEY  
MEDICAL CENTER**

---

117 ELEVENTH STREET, AMES, IA 50010  
515-239-2011

PRESIDENT  
**JEFFREY STEVENSON**

Medicare Provider #160030

March 19, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, MD 21207-5187

Attn: Robert Moore

The actual predicted mortality rate of our patients on the FY 1990 Medpar database is underestimated. Several of the indicators, such as emergency admits, used in determining a predicted mortality rate, were not available in our data since they are not needed for billing. Therefore, our UB-82 data was incomplete for accurately determining our predicted mortality rate.

Anyone who would like more information regarding mortality rates at Mary Greeley Medical Center may do so by writing Neal Loes, Director of Quality Management, 117 Eleventh Street, Ames, Iowa 50010.

Sincerely,

Jeffrey B. Stevenson  
President



# Mercy Hospital

500 E. Market Street • Iowa City, IA 52245

(319) 339-0300

March 19, 1992

160029

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

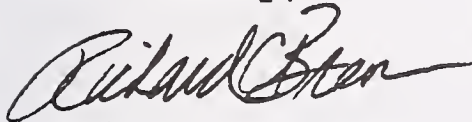
To Whom It May Concern:

I am writing to comment on the FY 1990 Medicare Hospital Mortality data which were mailed to Mercy Hospital on February 28, 1992 for review and comment.

Please note that Mercy Hospital has identified an error contained in the section labelled "Hospital Characteristics." This section indicates that Mercy Hospital has Medicare Swing Beds, when in fact we are not certified for Medicare Swing Beds. The survey document which we provided to the American Hospital Association specified that we had no Medicare Swing Beds.

We ask that this correction be made before publication of these data.

Sincerely,



Richard C. Breon  
President & Chief Executive Officer



An affiliate of Mercycenter Iowa City

# MERCY HOSPITAL

1401 West Central Park Avenue • Davenport, Iowa 52804-1769 • 319-383-1000

March 20, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

ATTN: Robert Moore

Dear Mr. Moore:

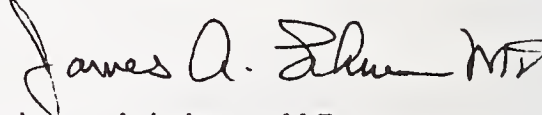
This letter is written relative to HCFA mortality data for Mercy Hospital, Davenport, Iowa, Hospital I.D. #16-0033. We reviewed the data from which you conducted your analysis and find the data to be substantially in agreement with our data for your selected sample. We do, however, have the following comments:

1. We believe that the mortality data for the indicated periods of 30, 90 and 180 days following admission not to be relevant to quality of care received during the various hospitalizations.
2. We question the validity of selecting a random hospitalization as a basis for analysis for those patients with multiple stays.
3. Because there were no detailed explanations of the formulas used for statistical analysis, we could not validate that the formulas were, in fact, appropriately applied.

We appreciate your desire to enhance the general public's overall knowledge of the real quality inherent in administered health care. In our opinion, however, the information that you are providing the public by the dissemination of your report most certainly does not accomplish this objective.

Sincerely,

MERCY HOSPITAL



James A. Lehman, M.D.  
Director of Medical Affairs

JAH:cd

# MERCY

MEDICAL CENTER

March 18, 1992

Provider # 160079

Gail Wilensky, Ph.D.  
Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Blvd.  
Baltimore, Maryland 21207-5187

Attention: Robert Moore

Dear Dr. Wilensky:

This letter serves as Mercy Medical Center's formal response to the Medicare mortality data recently sent to us by the Health Care Financing Administration (HCFA). We have several comments regarding the compilation, reporting, and interpretation of the statistical information presented in the mortality report.

First, I must emphasize that HCFA's model still contains several serious, yet basic flaws. For instance, the model is based upon administrative and billing data submitted on each patient's uniform bill. Analyzing a medical outcome such as mortality by using billing data is simply irresponsible. In short, the billing information is not reflective of the outcome HCFA is trying to measure. Researchers have identified other flaws in the model such as inadequate adjustment for patient severity -- a bias which tends to penalize hospitals that treat significant proportions of elderly patients; and an inability to adjust for hospitals that care for terminally ill patients (i.e., cancer centers and hospice programs). As a result of HCFA's endorsement of the mortality study, business groups and data commissions are inappropriately using HCFA's flawed data and under-developed model to conduct similar studies on state or market levels. Consequently, hospitals are wasting valuable time and resources dealing with the results of ill-conceived and poorly designed rankings and studies which use the HCFA data to claim legitimacy. It's the old adage "garbage-in, garbage-out" and HCFA has the responsibility for creating the impression that the data is useful for comparison purposes.

The 1990 HCFA data provided to Mercy Medical Center indicates that 2,705 Medicare cases were considered in this statistical model. According to our records, 4,018 Medicare discharges occurred in the period from October 1989 through September 1990. The difference between our Medicare discharge figure and the HCFA sample is attributed to HCFA's selection of only one inpatient admission per Medicare patient. As a result, the data analysis presented by HCFA somewhat misrepresents Mercy's experience with Medicare hospitalizations. For example, a patient might have had a series of admissions to the hospital during the course of one year, followed by death away from the hospital at some point after one of the discharges. The fact that the hospital had been able to return the patient to a functioning level which allowed the patient to be discharged several times is not reflected in the data.



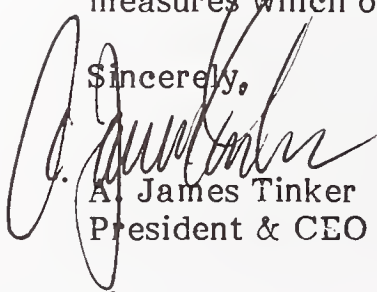
Third, we are concerned that the information presented to the public includes mortalities up to 180 days after a patient has been discharged from the hospital. Thus, the mortality report seems to hold hospitals accountable for deaths which occur one to six months after hospitalization. While it may be correct to assume that we are responsible for the patient's health status during their hospitalization, it is unfair to assume that the hospital has a significant effect on the patient's health status at one month, three months, or even six months after the hospital stay. Many factors contribute the patient's health status other than hospitalization. Factors such as inadequate access to primary, nursing home, or home health care after discharge; poor family/home support structures; chronic or acute disease processes not evident at hospitalization; availability of Medicaid/Medicare supplemental insurance coverage; and even advanced age or accidental death can impact the patient's health status.

Fourth, we wish to comment on the interpretation of the observed and predicted mortality rates. We feel that greater explanation is required in order to understand the relationship between the observed mortality rate and HCFA's predicted rate. It is our feeling that the data can be best understood by calculating a 95% confidence range for the predicted value. In other words, we feel that the data should be interpreted by comparing Mercy's observed value to a relevant predicted range. The upper limit of the predicted range is estimated by adding two standard deviations (the figure in the corresponding SD column) to the predicted value, while the lower portion of the range is calculated by subtracting two standard deviations from the predicted value. Thus, the predicted range for the 30 day mortality rate for all causes is 6.3% to 9.9%. Likewise, the predicted range for the 90 day mortality rate is calculated as 10.1% to 15.3%. Finally, the predicted range for the 180 day mortality rate from all causes is 13.8% to 18.6%. In each instance, Mercy's observed mortality rate falls within the range predicted by a 95% confidence interval. If a similar range is calculated for each condition and procedure listed in the mortality report, Mercy's observed values fall well within a range predicted by a 95% confidence interval (i.e., two standard deviations above and below the predicted value) for each category.

Fifth, we wish to highlight that the mortality rates for those conditions and procedures which do not contain at least 50 cases in the sample cannot be relied upon to offer a statistically valid measurement of the observed mortality rate. Indeed, we would argue that each category with 50 cases or less in the sample should not even appear in the mortality rate report (i.e., those categories for which a dot appears in the standard deviation column). Mortality rate comparisons for these categories are meaningless and can only serve to further confuse readers of the report.

Finally, we must voice our concern about the release of mortality information to the public. Mortality is a vastly inadequate measure of hospital quality. Over 97% of the patients discharged from Cedar Rapids hospitals are returned to a reasonably healthy, functioning status. HCFA's inappropriate emphasis upon mortality rates is misleading health care consumers. The agency's efforts should be redirected toward quality measures which offer more value to the public.

Sincerely,

  
A. James Tinker  
President & CEO

rf



# Northwest Iowa Health Center

118 North 7th Avenue  
Sheldon, Iowa 51201

Hospital (712) 324-5041

FAX (712) 324-4716

March 18, 1991

Medicare # 160126

Gail R. Wilensky, Ph.D.  
Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, MD 21207-5187  
ATTN: Robert Moore

Dear Gail,

This letter is to state that we disagree with the annual release of Medicare hospital mortality information for Medicare patients discharged in fiscal year (FY) 1990 (October 1, 1989 - September 30, 1990).

There are some discrepancies that we feel should be corrected before publication of this information. Some of the discrepancies that we noted are as follows:

There are eight (8) deaths that are recorded in this report that were also recorded in last year's report (see attached list).

In twelve (12) cases the diagnosis used in the report does not reflect the diagnosis at death. Examples of this are attached. As you can see, some of the reported cases have simple diagnoses, such as pneumonia and the diagnosis that should be used is neoplasm of the lung and errors like this skews the information regarding our facility.

In addition, the sample size used for this report was 244 patients and we actually had 363.

If you have any questions or comments, please give me a call. Thank you.

Sincerely,

Charles R. Miller  
Administrator

*"Working Together For Quality Health Care"*

United With Sioux Valley Hospital, Sioux Falls, SD



MEDICARE PROVIDER NUMBER: 160045

March 9, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management and Strategy  
Room 3-A-12, Security Office Park Building  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187  
ATTN: Robert Moore

RE: Comments With Regard to Medicare Hospital Mortality Rates  
Fiscal Year 1990

Dear Dr. Wilensky:


We inadvertently and erroneously submitted inaccurate information with regard to type of admission. We reported that virtually all (98.2%) of patients were admitted for an elective procedure while nearly none (0.6%) were admitted for emergency. In actuality, depending on the sample, only 16 - 18% of patients are admitted for elective procedure while 38 - 40% are admitted for emergency.

It should be noted that our observed mortality is low to begin with. Cliff Bailey from Health Care Financing Administration and author of the mortality model indicates that this error alone could be responsible for moving the mortality model as much as 2%. If so, our St. Luke's predicted mortality would be nearly identical to the observed mortality.

This error occurred because of faulty transfer of data coded in Medical Records to the electronically produced UB-82. This error was discovered and corrected in July of 1991.

The fiscal intermediary will not accept corrected data unless it has financial implications which, of course, this doesn't.

Sincerely yours,

  
Samuel T. Wallace  
President

STW:fcM





2720 STONE PARK BLVD. • P.O. BOX 2000 • SIOUX CITY, IOWA 51104 • PH. (712) 279-3500

March 18, 1992

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration  
Medicare Hospital Information  
Bureau of Data Management & Strategy  
Room 3-A-12, Security Office Park Bldg.  
6325 Security Boulevard  
Baltimore, MD 21207-5187  
ATTN: Robert Moore

Medicare Provider  
Number: 160146

Dear Mr. Moore:

The purpose of this letter is to provide comments which will assist individuals reviewing mortality rates for Medicare patients treated at St. Luke's Regional Medical Center in Sioux City, Iowa.

The monitoring and improvement of patient care quality continue to be high priorities for St. Luke's Regional Medical Center's Medical Staff, employees and Board of Directors. These groups continuously review the quality of care by monitoring over 400 quality indicators, one of which is mortality information. While mortality review is considered a useful screening tool, health care consumers must be aware that death rates may not reflect the quality of care, good or bad.

We recognize and applaud the Health Care Financing Administration's (HCFA) efforts to make the annual mortality data more useful for health care providers. Defining homogeneous diagnostic and procedural categories, portraying both the observed and predicted mortality rates, and providing graphic presentation of standard deviations are useful efforts. It is a matter of some concern that the technical nature of this information which makes mortality rates more meaningful to health care providers also makes it more difficult for health care consumers to interpret the rates in a meaningful fashion. Health care consumers generally do not understand nor will they be provided with an adequate explanation of the significance of standard deviations.

The mortality rates for St. Luke's Regional Medical Center have been evaluated and it is our conclusion that the differences between the observed and predicted mortality rates are insignificant. Further, the HCFA mortality data supports findings from the Medical Center's own criteria-based mortality review of patients who died while hospitalized during the time period covered by HCFA's analysis. Finally, our analysis of this data did not produce information which could be used to improve the quality of patient care.

Health care consumers must recognize that mortality rates, especially those represented at 90 and 180 days include patients who were not hospitalized at the time of their death. Some of these patients may have died from accidents or causes totally unrelated to the reason they were originally admitted to the hospital. It is also important to note that hospitals cannot directly impact patients' lifestyles or their use of other health care providers following discharge from the hospital.

We appreciate the opportunity to provide comments regarding mortality data. It is hoped our continuing dialogue may lead to improvements in the manner in which mortality rates are projected, as well as lead to opportunities to develop quality assessment tools which will be equally useful to both providers and consumers. We expect these comments will accompany St. Luke's Regional Medical Center's mortality rates at the time of their release.

Sincerely,

A handwritten signature in dark ink, appearing to read "Gary G. Schroeder", with a stylized flourish at the end.

Gary G. Schroeder  
Vice President for  
Medical Staff Administration

GGG/rim



# The University of Iowa

Iowa City, Iowa 52242

The University of Iowa Hospitals and Clinics  
Office of the Director and Assistant to  
The President for Statewide Health Services

March 19, 1992

319/356-1616



1847

Gail R. Wilensky, Ph.D., Administrator  
Health Care Financing Administration (HCFA)  
6325 Security Boulevard  
Baltimore, Maryland 21207-5187

RE: University of Iowa Hospitals and Clinics' (UIHC) Response to HCFA Mortality Data

Dear Dr. Wilensky:

We are once again appreciative of the opportunity to comment on the Medicare mortality data prior to its release later this year. While we are aware that efforts have been undertaken to improve the accuracy and utility of these data, we continue to be highly concerned about the public disclosure of mortality rates as a gross proxy of provider "quality." To continue to refine this process, the following comments and concerns are offered for your consideration:

- \* By your own admission, conditions and procedures with fewer than 50 cases lack "precision and interpretability." Therefore, we question the usefulness and appropriateness of providing actual and predicted rates on fully half of the reported conditions and two-thirds of the procedures for the UIHC.
- \* Several significant numeric errors were found when comparing the patient level data with the summary results provided by HCFA. These errors affect the observed and predicted mortality rates and should be corrected prior to the public release. These errors include incorrect number of cases reported for one condition (C8) and four procedures (P1, P2, P8, P9) as well as artificially inflated mortality rates for three of the conditions (C1, C2, C8).
- \* Eighteen deaths, representing 8.6% of ALL deaths and 11.2% of deaths in reportable categories, were double-counted, thereby adversely affecting the reported mortality rates for three conditions (C1, C2, C7) and five procedures (P1, P2, P3, P5, P6). Given the small number of cases in many of these categories, ascribing deaths to multiple categories inappropriately skews the UIHC experience.
- \* Twenty-eight deaths, representing 13.4% of ALL deaths and 17.4% of deaths in reportable categories, occurred greater than 180 days post-discharge and were incorrectly and inappropriately included in the analysis. This adversely affects the reported mortality rates for four conditions (C2, C4, C6, C7) and seven of the nine procedures (P1, P2, P3, P4, P5, P6, P8). These should be excluded, with the attendant rates recalculated, prior to the final publication.
- \* Comprehensive tertiary care referral centers, such as the UIHC, treat more severely ill patients who often have a poorer prognosis at admission and receive specialized services not otherwise available in community hospitals. Therefore, the UIHC's experience cannot be validly contrasted with that of community hospitals which can be expected to have lower mortality rates based on the differences in the patient populations each respectively serves. In fact, many programs, by design, transfer those patients with the highest potential for death to our center for care to assure that they have every possible advantage for survival.
- \* To illustrate the importance of the severity factor at the UIHC, following are select examples of the case load in three of the reported categories:
  1. Sepsis: Of the eight patient deaths reported, three had been transferred from community hospitals, four were in shock and five died within 48 hours of admission. Underlying illnesses have been shown to be the major predictors of mortality in several studies since the classic report by McCabe and Jackson. In terms of underlying diseases, five of the eight were immunosuppressed, two had undergone renal transplantation and one had experienced a splenectomy. Clostridial sepsis or Pseudomonas sepsis in a leukemic patient, or overwhelming pneumococcal sepsis in a splenectomized patient carry at least



75% mortality figures. Thus, our patients had severe underlying diseases, were often immunocompromised and presented in shock due to organisms known to carry a very high risk of mortality.

2. PTCA: Of the 10 reported PTCA deaths, at least 7 were performed on an emergency basis following either an Acute Myocardial Infarction or an episode of unstable angina. All had extensive multivessel coronary vascular disease with severe left ventricular dysfunction. Four had undergone a prior Coronary Artery Bypass Graft. Eight of the PTCAs were successfully completed without procedure-related complications, and half were ultimately discharged in stable condition.
3. CABG: Of the 19 reported CABG deaths, 10 were performed on an emergency basis and 5 were performed in addition to another major open heart procedure. Six patients were transferred from another acute care hospital and five were operated on as a result of complications from an Acute Myocardial Infarction.

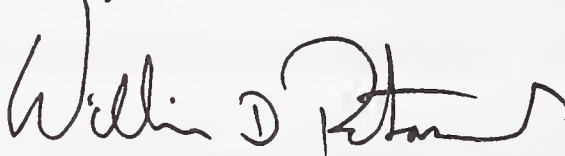
Given these findings, we urge HCFA to consider enhancing the existing risk adjustments. Several disease specific systems are currently available, such as the one adopted by the Society of Thoracic Surgeons, which would greatly improve the validity of the predicted values.

- \* As the sole comprehensive tertiary care center for the State of Iowa, with fully 90% of our patients referred from outside of our home county, our traditional practice is to return the patient to his or her local community for any requisite follow-up care. Accordingly, given the elongated time periods associated with utilizing data up to 180 days post-discharge, it may be highly inappropriate to attribute the mortality statistics to the UIHC when substantial intervening care may have occurred following the UIHC admission.
- \* Mortality rates are, at best, a crude measure of quality. At the UIHC, all hospital deaths are routinely reviewed by the appropriate clinical department and others as indicated. In addition, a broad array of clinical outcome measures are reviewed as part of our comprehensive Quality Improvement Program. Deaths following discharge may be unrelated to the condition of the patient at discharge. Drawing conclusions about a hospital's quality of care based upon patient deaths often occurring post-discharge, especially three to six months after admission, is potentially highly misleading. Many factors unrelated to quality or effectiveness of hospital care may influence the observed mortality rates.

Given the complexity of assessing the quality of patient care, consumers should be encouraged to discuss their care and choice of hospitals with their personal physician rather than relying on published mortality statistics to frame their health care decisions. Further, the mortality data are specific to Medicare patients only and, as such, have very limited applicability to other patient populations, such as obstetric and pediatric patients.

We strongly agree that physicians, hospitals and others in the health care system must work closely with HCFA in developing valid and reliable measures of quality. However, we caution against the widespread use of the mortality data as a valid benchmark of quality, given the array of considerations presented in this correspondence. Only an ongoing peer review process of the actual care rendered to individual patients, such as the one extant at the UIHC, can accurately indicate whether there are any concerns regarding the process or outcomes of care at a given institution. We look forward to continuing to work with the Health Care Financing Administration as its methodologies are further refined.

Sincerely,



William D. Petasnick  
Administrator







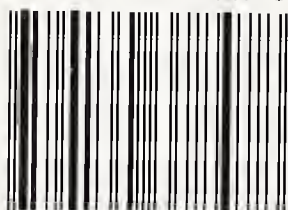


CMS LIBRARY



3 8095 00015452 2

ISBN 0-16-037847-8



9 780160 378478

90000

